

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: P331973

Luminaire Tested: **S123DIP-S775D805U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331973  
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-S775D805U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

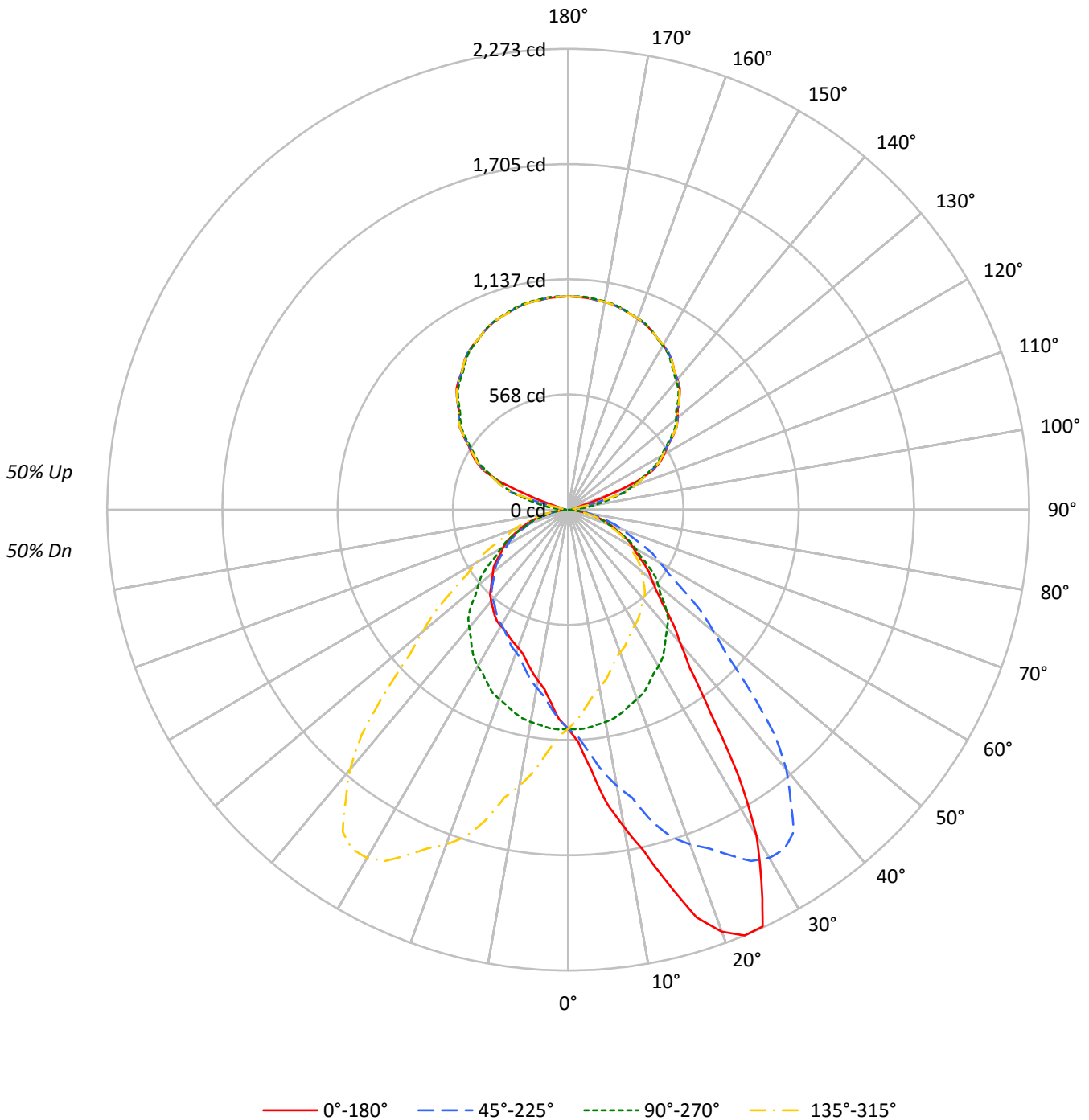
Lumens per Lamp: N/A  
Luminaire Lumens: 6473.2 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 45.9  
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	98	94	90	87	90	87	84	81	74	71	69	62	60	58	50	49	48	43
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41	36
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	63	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21	18
8	54	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

**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	1.6
10°-20°	341.3	5.3
20°-30°	572.8	8.8
30°-40°	648.6	10.0
40°-50°	581.7	9.0
50°-60°	469.4	7.3
60°-70°	327.1	5.1
70°-80°	171.9	2.7
80°-90°	45.0	0.7
90°-100°	38.3	0.6
100°-110°	182.3	2.8
110°-120°	438.0	6.8
120°-130°	557.7	8.6
130°-140°	595.9	9.2
140°-150°	557.2	8.6
150°-160°	449.5	6.9
160°-170°	290.1	4.5
170°-180°	100.0	1.5
0°-30°	1020.6	15.8
0°-40°	1669.2	25.8
0°-60°	2720.2	42.0
0°-90°	3264.2	50.4
90°-120°	658.6	10.2
90°-150°	2369.4	36.6
90°-180°	3209.0	49.6
0°-180°	6473.2	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	41
90°	24	1	24	1	24	12
95°	30	48	30	48	30	25
105°	34	233	34	233	34	79
115°	460	437	460	437	460	425
125°	629	616	629	616	629	561
135°	775	767	775	767	775	597
145°	894	885	894	885	894	558
155°	973	975	973	975	973	449
165°	1026	1028	1026	1028	1026	290
175°	1048	1052	1048	1052	1048	100
180°	1052	1052	1052	1052	1052	



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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°	17.3	16.3	16.7	17.0	16.6	16.9	17.2	17.4	17.7	18.0	18.0
90°	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2	19.5	18.8	16.5
92.5°	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2	21.1	20.0	18.3
95°	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7	25.5	24.2	22.3
97.5°	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0	26.6	25.2	37.7
100°	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6	27.2	25.8	52.9
102.5°	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8	47.1	51.4	81.0
105°	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7	140.5	171.2	186.8
107.5°	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7	291.3	313.8	311.3
110°	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1	346.9	352.6	350.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2	392.1	392.0	390.1
115°	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2	450.5	448.8	447.2
117.5°	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6	505.2	503.8	503.0
120°	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2	540.8	539.4	538.9
122.5°	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0	576.1	575.1	574.4
125°	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1	625.8	625.4	624.7
127.5°	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3	674.8	674.2	673.4
130°	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0	704.3	703.6	702.9
132.5°	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1	732.5	731.8	731.2
135°	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8	775.3	774.8	774.1
137.5°	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8	813.0	812.1	811.7
140°	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9	837.2	836.5	836.0
142.5°	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8	860.2	859.7	859.1
145°	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7	892.4	892.0	891.7
147.5°	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3	921.0	920.6	920.3
150°	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8	938.5	938.2	937.8
152.5°	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4	953.8	953.2	953.0
155°	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9	975.0	974.1	973.9
157.5°	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5	993.5	992.4	992.6
160°	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1	1004.1	1003.0	1003.2
162.5°	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8	1013.6	1012.4	1012.6
165°	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7	1026.3	1024.9	1025.1
167.5°	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9	1034.9
170°	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6	1040.6
172.5°	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1	1045.7	1044.3	1044.2
175°	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6	1050.4	1049.2	1049.0
177.5°	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3	1052.2	1051.0	1050.9
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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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°	18.3	18.3	16.6	14.5	13.3	11.7	11.4	10.2	9.7	10.1	10.0
90°	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8	2.5	4.3	6.0
92.5°	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5	14.1	13.6	13.1
95°	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7	40.6	33.4	26.3
97.5°	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8	92.7	89.5	86.3
100°	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1	135.6	139.1	142.5
102.5°	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4	175.9	178.4	180.9
105°	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0	234.9	236.8	238.7
107.5°	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8	297.4	298.9	300.4
110°	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7	339.1	340.5	341.9





TEST NUMBER: P331973

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8	379.0	380.3	381.5
115°	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0	438.1	439.1	440.2
117.5°	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4	495.7	497.0	498.3
120°	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1	531.6	533.2	534.7
122.5°	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3	567.6	568.9	570.2
125°	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1	617.4	618.8	620.2
127.5°	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2	665.6	667.0	668.4
130°	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2	695.6	697.0	698.4
132.5°	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0	724.4	725.8	727.2
135°	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9	768.0	769.0	770.1
137.5°	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5	805.8	807.1	808.4
140°	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5	830.5	831.6	832.6
142.5°	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6	853.7	854.7	855.8
145°	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0	886.2	887.4	888.6
147.5°	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5	916.3	917.1	917.9
150°	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2	934.8	935.3	935.8
152.5°	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1	951.4	951.6	951.9
155°	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9	974.6	974.2	973.9
157.5°	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3	993.3	993.3	993.2
160°	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.4	1004.3	1004.1
162.5°	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2	1014.8	1014.3	1013.9
165°	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1	1027.5	1027.0	1026.5
167.5°	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1	1037.4	1036.7	1036.0
170°	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7	1043.0	1042.3	1041.6
172.5°	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4	1046.6	1045.8	1044.9
175°	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3	1051.4	1050.6	1049.7
177.5°	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5	1052.9	1052.2	1051.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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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°	9.9	10.7	10.8	11.6	11.7	12.5	12.7	12.0	12.1	13.5	12.0
90°	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2	20.8	21.5	22.1
92.5°	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2	23.3	24.5	25.1
95°	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7	27.9	29.1	29.7
97.5°	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0	29.3	30.7	31.5
100°	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6	30.0	31.4	32.1
102.5°	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8	38.5	34.2	32.2
105°	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7	79.0	48.2	33.0
107.5°	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7	246.2	223.6	200.7
110°	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1	335.4	329.7	314.4



TEST NUMBER: P331973

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2	392.3	392.4	389.8
115°	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2	454.0	455.7	456.9
117.5°	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6	508.0	509.3	510.1
120°	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2	543.6	545.0	545.7
122.5°	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0	578.0	579.0	579.5
125°	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1	626.5	626.8	627.2
127.5°	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3	675.9	676.4	676.5
130°	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0	705.7	706.4	706.6
132.5°	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1	733.8	734.5	734.6
135°	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8	776.3	776.8	776.8
137.5°	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8	814.6	815.5	815.7
140°	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9	838.6	839.3	839.5
142.5°	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8	861.3	861.9	861.9
145°	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7	893.1	893.4	893.6
147.5°	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3	921.7	922.0	921.8
150°	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8	939.2	939.5	939.5
152.5°	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4	955.0	955.7	955.6
155°	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9	976.7	977.6	977.5
157.5°	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5	995.5	996.6	996.4
160°	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1	1006.2	1007.2	1007.1
162.5°	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8	1016.0	1017.1	1017.2
165°	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7	1029.1	1030.5	1030.6
167.5°	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5
170°	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1
172.5°	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1	1048.5	1049.9	1049.8
175°	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6	1052.8	1054.0	1053.9
177.5°	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3	1054.4	1055.5	1055.4
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331973

CATALOG NUMBER: S123DIP-S775D805U835-4F0-1E-UDD-A

**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°	12.0	12.1	11.7	11.4	11.7	12.1	12.0	12.0	13.5	12.1	12.0
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2
92.5°	25.3	25.5	25.7	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2
95°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7
97.5°	31.7	31.9	32.0	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0
100°	32.3	32.5	32.7	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6
102.5°	32.5	32.8	33.1	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8
105°	33.4	33.7	34.1	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7
107.5°	177.6	154.4	131.2	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7
110°	289.5	264.7	239.8	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1



TEST NUMBER: P331973

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.6	379.3	374.1	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2
115°	457.6	458.3	459.0	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2
117.5°	510.3	510.4	510.5	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6
120°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2
122.5°	579.7	579.8	580.0	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0
125°	627.5	627.9	628.2	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1
127.5°	676.2	675.9	675.5	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3
130°	706.2	705.9	705.5	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0
132.5°	734.2	733.7	733.2	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1
135°	776.3	775.8	775.3	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8
137.5°	815.4	815.0	814.7	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8
140°	839.1	838.8	838.4	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9
142.5°	861.4	860.9	860.5	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8
145°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7
147.5°	921.0	920.2	919.4	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3
150°	938.9	938.4	937.9	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8
152.5°	954.8	954.0	953.2	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4
155°	976.5	975.4	974.4	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9
157.5°	995.1	993.7	992.4	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5
160°	1005.9	1004.7	1003.5	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1
162.5°	1016.1	1015.0	1014.0	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8
165°	1029.4	1028.1	1026.9	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7
167.5°	1039.1	1037.7	1036.3	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7
170°	1044.7	1043.3	1042.0	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3
172.5°	1048.3	1046.8	1045.2	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1
175°	1052.6	1051.2	1049.8	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6
177.5°	1054.0	1052.6	1051.2	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331973

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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°	12.7	12.5	11.7	11.6	10.8	10.7	9.9	10.0	10.1	9.7	10.2
90°	19.5	18.8	16.5	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8
92.5°	21.1	20.0	18.3	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5
95°	25.5	24.2	22.3	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7
97.5°	26.6	25.2	37.7	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8
100°	27.2	25.8	52.9	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1
102.5°	47.1	51.4	81.0	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4
105°	140.5	171.2	186.8	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0
107.5°	291.3	313.8	311.3	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8
110°	346.9	352.6	350.7	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7



TEST NUMBER: P331973

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	392.1	392.0	390.1	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8
115°	450.5	448.8	447.2	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0
117.5°	505.2	503.8	503.0	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4
120°	540.8	539.4	538.9	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1
122.5°	576.1	575.1	574.4	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3
125°	625.8	625.4	624.7	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1
127.5°	674.8	674.2	673.4	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2
130°	704.3	703.6	702.9	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2
132.5°	732.5	731.8	731.2	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0
135°	775.3	774.8	774.1	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9
137.5°	813.0	812.1	811.7	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5
140°	837.2	836.5	836.0	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5
142.5°	860.2	859.7	859.1	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6
145°	892.4	892.0	891.7	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0
147.5°	921.0	920.6	920.3	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5
150°	938.5	938.2	937.8	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2
152.5°	953.8	953.2	953.0	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1
155°	975.0	974.1	973.9	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9
157.5°	993.5	992.4	992.6	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3
160°	1004.1	1003.0	1003.2	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
162.5°	1013.6	1012.4	1012.6	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2
165°	1026.3	1024.9	1025.1	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1
167.5°	1036.3	1034.9	1034.9	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1
170°	1042.0	1040.6	1040.6	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7
172.5°	1045.7	1044.3	1044.2	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4
175°	1050.4	1049.2	1049.0	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3
177.5°	1052.2	1051.0	1050.9	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331973

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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°	11.4	11.7	13.3	14.5	16.6	18.3	18.3	18.0	18.0	17.7	17.4
90°	2.5	4.3	6.0	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2
92.5°	14.1	13.6	13.1	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2
95°	40.6	33.4	26.3	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7
97.5°	92.7	89.5	86.3	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0
100°	135.6	139.1	142.5	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6
102.5°	175.9	178.4	180.9	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8
105°	234.9	236.8	238.7	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7
107.5°	297.4	298.9	300.4	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7
110°	339.1	340.5	341.9	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	379.0	380.3	381.5	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2
115°	438.1	439.1	440.2	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2
117.5°	495.7	497.0	498.3	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6
120°	531.6	533.2	534.7	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2
122.5°	567.6	568.9	570.2	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0
125°	617.4	618.8	620.2	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1
127.5°	665.6	667.0	668.4	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3
130°	695.6	697.0	698.4	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0
132.5°	724.4	725.8	727.2	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1
135°	768.0	769.0	770.1	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8
137.5°	805.8	807.1	808.4	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8
140°	830.5	831.6	832.6	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9
142.5°	853.7	854.7	855.8	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8
145°	886.2	887.4	888.6	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7
147.5°	916.3	917.1	917.9	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3
150°	934.8	935.3	935.8	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8
152.5°	951.4	951.6	951.9	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4
155°	974.6	974.2	973.9	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9
157.5°	993.3	993.3	993.2	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5
160°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1
162.5°	1014.8	1014.3	1013.9	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8
165°	1027.5	1027.0	1026.5	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7
167.5°	1037.4	1036.7	1036.0	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7
170°	1043.0	1042.3	1041.6	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3
172.5°	1046.6	1045.8	1044.9	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1
175°	1051.4	1050.6	1049.7	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6
177.5°	1052.9	1052.2	1051.5	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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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°	17.2	16.9	16.6	17.0	16.7	16.3	17.3
90°	20.8	21.5	22.1	22.4	22.8	23.1	23.5
92.5°	23.3	24.5	25.1	25.3	25.5	25.7	26.0
95°	27.9	29.1	29.7	29.7	29.7	29.7	29.7
97.5°	29.3	30.7	31.5	31.7	31.9	32.0	32.2
100°	30.0	31.4	32.1	32.3	32.5	32.7	32.8
102.5°	38.5	34.2	32.2	32.5	32.8	33.1	33.5
105°	79.0	48.2	33.0	33.4	33.7	34.1	34.4
107.5°	246.2	223.6	200.7	177.6	154.4	131.2	108.0
110°	335.4	329.7	314.4	289.5	264.7	239.8	215.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	392.3	392.4	389.8	384.6	379.3	374.1	368.9
115°	454.0	455.7	456.9	457.6	458.3	459.0	459.7
117.5°	508.0	509.3	510.1	510.3	510.4	510.5	510.7
120°	543.6	545.0	545.7	545.7	545.7	545.7	545.7
122.5°	578.0	579.0	579.5	579.7	579.8	580.0	580.1
125°	626.5	626.8	627.2	627.5	627.9	628.2	628.6
127.5°	675.9	676.4	676.5	676.2	675.9	675.5	675.2
130°	705.7	706.4	706.6	706.2	705.9	705.5	705.2
132.5°	733.8	734.5	734.6	734.2	733.7	733.2	732.7
135°	776.3	776.8	776.8	776.3	775.8	775.3	774.8
137.5°	814.6	815.5	815.7	815.4	815.0	814.7	814.3
140°	838.6	839.3	839.5	839.1	838.8	838.4	838.1
142.5°	861.3	861.9	861.9	861.4	860.9	860.5	860.0
145°	893.1	893.4	893.6	893.6	893.6	893.6	893.6
147.5°	921.7	922.0	921.8	921.0	920.2	919.4	918.6
150°	939.2	939.5	939.5	938.9	938.4	937.9	937.4
152.5°	955.0	955.7	955.6	954.8	954.0	953.2	952.4
155°	976.7	977.6	977.5	976.5	975.4	974.4	973.3
157.5°	995.5	996.6	996.4	995.1	993.7	992.4	991.0
160°	1006.2	1007.2	1007.1	1005.9	1004.7	1003.5	1002.3
162.5°	1016.0	1017.1	1017.2	1016.1	1015.0	1014.0	1012.9
165°	1029.1	1030.5	1030.6	1029.4	1028.1	1026.9	1025.7
167.5°	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9
170°	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6
172.5°	1048.5	1049.9	1049.8	1048.3	1046.8	1045.2	1043.7
175°	1052.8	1054.0	1053.9	1052.6	1051.2	1049.8	1048.4
177.5°	1054.4	1055.5	1055.4	1054.0	1052.6	1051.2	1049.8
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3

(END OF REPORT)