

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: P331982-935

Luminaire Tested: **S123DIP-S775D1025U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331982-935  
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-S775D1025U935-4F0-1E-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: 6338.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

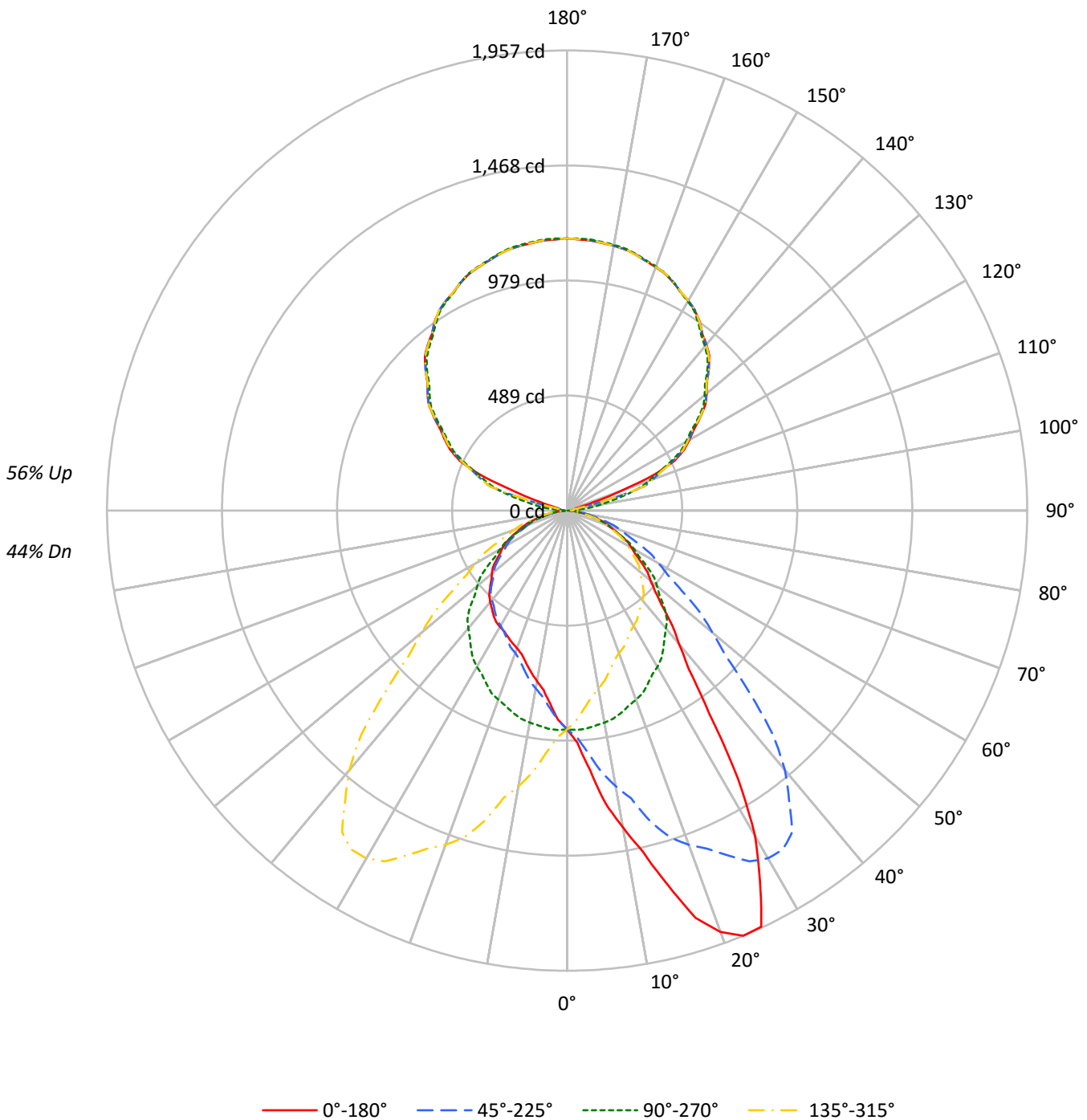
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	10014	10014	10014	10014
5°	11943	10057	8912	10057
10°	14948	10006	8050	10006
15°	18333	9926	7494	9926
20°	21841	9800	7135	9800
25°	23192	9647	7056	9647
30°	19877	9536	7093	9536
35°	13825	9376	7167	9376
40°	10413	9190	7144	9190
45°	8645	8914	7054	8914
50°	7743	8348	6990	8348
55°	7240	7739	6902	7739
60°	6794	7102	6833	7102
65°	6383	6477	6612	6477
70°	5986	5759	6297	5759
75°	5361	5041	5772	5041
80°	4699	4135	4971	4135
85°	3680	3013	3335	3013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	1.4
10°-20°	293.9	4.6
20°-30°	493.2	7.8
30°-40°	558.5	8.8
40°-50°	500.8	7.9
50°-60°	404.1	6.4
60°-70°	281.6	4.4
70°-80°	148.0	2.3
80°-90°	39.4	0.6
90°-100°	42.1	0.7
100°-110°	200.4	3.2
110°-120°	481.5	7.6
120°-130°	613.1	9.7
130°-140°	655.1	10.3
140°-150°	612.6	9.7
150°-160°	494.1	7.8
160°-170°	318.9	5.0
170°-180°	109.9	1.7
0°-30°	878.7	13.9
0°-40°	1437.2	22.7
0°-60°	2342.1	36.9
0°-90°	2811.2	44.3
90°-120°	724.0	11.4
90°-150°	2604.6	41.1
90°-180°	3528.0	55.7
0°-180°	6338.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	930	930	930	930	930	
5°	1105	931	825	931	1105	115
15°	1645	891	672	891	1645	475
25°	1953	812	594	812	1953	856
35°	1052	714	545	714	1052	684
45°	568	586	463	586	568	449
55°	386	412	368	412	386	346
65°	251	254	260	254	251	250
75°	129	121	139	121	129	138
85°	30	24	27	24	30	36
90°	26	1	26	1	26	13
95°	33	52	33	52	33	27
105°	38	256	38	256	38	86
115°	505	480	505	480	505	467
125°	691	677	691	677	691	617
135°	852	843	852	843	852	657
145°	982	973	982	973	982	613
155°	1070	1072	1070	1072	1070	493
165°	1128	1130	1128	1130	1128	318
175°	1152	1157	1152	1157	1152	110
180°	1157	1157	1157	1157	1157	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	987.3	986.6	984.8	986.3	983.3	979.4	979.0	975.4	964.9	964.2	961.4
5°	1105.3	1101.6	1101.2	1100.7	1094.4	1085.9	1069.6	1068.2	1046.6	1035.8	1022.8
7.5°	1257.9	1259.8	1253.3	1247.5	1228.2	1215.5	1198.1	1175.8	1149.3	1122.3	1104.3
10°	1367.6	1382.4	1364.0	1351.3	1339.6	1317.5	1291.8	1259.8	1227.9	1190.4	1162.0
12.5°	1485.1	1492.5	1488.8	1476.9	1458.6	1425.0	1379.5	1344.2	1314.7	1252.4	1227.3
15°	1645.2	1672.8	1655.2	1614.5	1615.5	1583.5	1524.0	1458.6	1423.9	1369.3	1295.0
17.5°	1815.8	1819.2	1811.7	1778.0	1755.4	1711.4	1656.5	1593.9	1523.5	1457.5	1378.6
20°	1906.7	1903.9	1888.2	1870.6	1831.9	1797.6	1737.7	1667.8	1577.6	1512.7	1426.6
22.5°	1957.1	1952.7	1945.2	1930.4	1898.2	1861.4	1807.6	1731.2	1645.5	1556.0	1456.6
25°	1952.7	1958.5	1959.4	1955.3	1944.1	1922.0	1879.6	1818.8	1733.1	1618.2	1514.5
27.5°	1776.0	1784.3	1808.4	1829.7	1853.6	1877.9	1874.7	1844.4	1781.1	1681.9	1555.1
30°	1599.2	1581.2	1625.8	1682.2	1720.5	1788.1	1826.0	1828.2	1792.6	1707.4	1583.9
32.5°	1354.0	1373.9	1393.6	1462.9	1546.7	1622.6	1698.0	1758.7	1765.6	1708.9	1600.9
35°	1052.1	1076.9	1112.9	1148.9	1239.2	1316.6	1449.1	1564.5	1656.5	1668.7	1602.4
37.5°	847.7	860.1	882.9	918.9	977.9	1069.9	1172.4	1318.3	1451.5	1550.6	1554.9
40°	741.1	744.7	770.3	797.8	845.6	921.4	1013.7	1142.6	1302.2	1440.6	1498.3
42.5°	661.0	668.9	679.8	706.2	744.2	801.2	887.2	993.7	1140.0	1299.2	1412.1
45°	567.9	577.0	583.8	601.3	628.4	666.7	726.6	824.0	935.3	1099.8	1251.7
47.5°	506.4	507.2	512.2	525.5	543.9	572.7	615.0	677.6	779.8	913.2	1069.2
50°	462.4	469.7	471.5	481.8	496.3	517.5	552.6	605.8	689.7	806.8	950.2
52.5°	431.4	433.6	438.7	446.2	458.7	475.3	505.8	547.4	613.2	713.1	844.9
55°	385.8	385.8	390.8	396.7	403.9	418.7	439.0	469.7	519.7	597.3	706.4
57.5°	343.6	345.9	349.4	351.2	357.3	367.2	384.1	407.4	444.7	504.4	591.1
60°	315.6	319.6	319.2	322.7	328.1	335.8	350.3	369.2	402.5	450.3	523.3
62.5°	291.0	290.8	290.7	295.0	300.4	307.7	317.0	333.5	361.8	404.2	466.3
65°	250.6	249.7	252.9	255.5	257.4	262.8	270.0	284.4	303.3	334.9	383.1
67.5°	214.7	212.2	213.9	214.7	217.8	222.1	228.8	237.7	252.8	278.1	314.4
70°	190.2	188.0	187.5	188.4	191.1	194.2	199.2	207.8	221.8	242.0	268.6
72.5°	165.0	163.4	163.3	165.3	166.6	168.7	172.2	180.0	191.1	206.4	231.2
75°	128.9	128.9	128.9	129.3	130.7	132.5	135.3	139.3	147.8	158.7	175.3
77.5°	96.6	96.5	96.0	95.9	97.9	98.8	99.4	103.1	107.9	115.2	127.3
80°	75.8	73.4	74.4	75.8	76.6	77.1	78.4	79.3	83.4	87.5	96.0
82.5°	56.2	54.3	54.5	56.7	56.8	57.3	58.6	59.8	61.4	65.1	69.7
85°	29.8	29.8	30.2	30.2	30.7	30.2	31.5	32.0	32.0	34.3	36.9
87.5°	16.0	15.2	15.5	15.8	15.3	15.6	15.8	15.9	16.2	16.4	16.3
90°	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1	21.4	20.7	18.2
92.5°	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5	23.2	22.0	20.1
95°	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3	28.0	26.6	24.5
97.5°	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7	29.2	27.6	41.4
100°	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4	29.9	28.3	58.1
102.5°	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1	51.8	56.6	89.1
105°	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6	154.4	188.2	205.4
107.5°	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4	320.2	345.0	342.2
110°	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0	381.3	387.6	385.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1	431.0	430.9	428.8
115°	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1	495.2	493.3	491.5
117.5°	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9	555.3	553.8	552.9
120°	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1	594.5	593.0	592.5
122.5°	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3	633.3	632.1	631.5
125°	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3	687.9	687.5	686.7
127.5°	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4	741.8	741.1	740.2
130°	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0	774.2	773.4	772.7
132.5°	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9	805.2	804.4	803.8
135°	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8	852.2	851.7	850.9
137.5°	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6	893.6	892.8	892.3
140°	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1	920.3	919.5	919.0
142.5°	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2	945.6	945.0	944.4
145°	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4	980.9	980.6	980.2
147.5°	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8	1012.4	1012.0	1011.7
150°	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1	1031.7	1031.3	1030.9
152.5°	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1	1048.4	1047.8	1047.6
155°	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7	1071.8	1070.8	1070.7
157.5°	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2	1092.1	1090.9	1091.1
160°	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9	1103.8	1102.6	1102.8
162.5°	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5	1114.2	1112.9	1113.1
165°	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7	1128.2	1126.7	1126.9
167.5°	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6	1137.6
170°	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8	1143.8
172.5°	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1	1149.5	1148.0	1147.8
175°	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0	1154.7	1153.3	1153.1
177.5°	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8	1156.6	1155.4	1155.2
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	959.2	956.3	953.4	948.4	944.1	937.9	936.1	933.9	927.5	921.7	917.4
5°	1017.8	1006.9	991.2	976.8	965.1	949.3	940.3	930.8	917.3	905.1	895.2
7.5°	1079.1	1057.8	1033.3	1006.8	982.1	958.3	939.1	922.0	903.0	885.1	871.2
10°	1127.7	1097.1	1062.9	1025.9	994.4	963.7	938.0	915.5	891.1	870.0	852.4
12.5°	1183.3	1137.9	1090.6	1045.8	1008.4	965.9	934.8	906.1	878.5	853.0	833.3
15°	1249.1	1191.4	1135.4	1073.7	1016.9	963.7	926.8	890.7	858.7	832.5	807.3
17.5°	1308.9	1243.5	1169.8	1094.8	1026.2	963.2	911.5	870.6	830.6	798.7	773.5
20°	1342.8	1268.4	1185.0	1107.1	1031.3	961.0	904.2	855.5	812.3	778.4	750.0
22.5°	1372.0	1285.0	1198.7	1115.3	1031.0	955.2	890.9	840.8	793.8	760.8	730.6
25°	1402.3	1298.1	1211.6	1113.8	1019.6	941.2	869.0	812.3	765.3	726.6	695.5
27.5°	1428.2	1297.3	1194.6	1089.3	1001.8	923.2	846.1	785.2	735.5	693.4	661.8
30°	1445.5	1299.1	1176.9	1072.8	984.5	903.3	828.5	767.2	714.9	672.1	642.3
32.5°	1456.4	1298.0	1160.7	1049.7	957.0	885.3	809.3	745.9	692.2	650.1	621.4
35°	1462.7	1290.0	1132.7	1002.0	912.7	842.9	779.4	713.5	657.2	617.9	585.6
37.5°	1450.1	1273.3	1100.3	956.1	858.3	789.5	736.1	680.0	626.1	582.9	555.0
40°	1430.2	1262.6	1075.0	923.6	820.8	754.6	709.0	654.0	600.8	559.8	533.6
42.5°	1392.3	1240.5	1047.2	887.5	781.9	715.6	673.7	627.8	577.4	538.9	512.8
45°	1299.9	1192.7	1005.6	833.4	724.4	655.8	618.9	585.6	540.0	502.6	480.0
47.5°	1171.7	1120.7	945.4	776.4	664.3	598.4	560.0	533.1	499.9	469.7	448.1
50°	1082.7	1061.5	904.7	737.4	624.3	559.8	522.9	498.5	474.7	444.4	424.6
52.5°	979.9	993.0	857.0	697.1	583.5	520.1	485.3	466.1	444.4	419.6	402.3
55°	835.3	882.5	774.8	629.2	522.9	462.4	429.6	412.4	399.8	381.3	366.4
57.5°	699.7	760.0	686.0	559.4	463.3	411.2	379.6	360.9	352.8	343.2	331.5
60°	619.3	678.8	622.5	512.5	423.3	373.7	345.7	329.9	321.8	315.0	305.1
62.5°	547.6	607.8	560.4	464.9	383.9	337.9	313.7	298.3	291.9	288.3	279.9
65°	448.9	500.8	469.2	390.8	327.7	287.1	265.0	254.3	248.4	247.0	241.6
67.5°	365.4	404.8	381.9	324.2	274.5	239.4	220.7	211.5	207.0	206.6	202.5
70°	310.6	347.5	329.9	277.7	234.9	207.3	191.1	183.0	180.3	179.9	177.6
72.5°	268.0	293.8	279.8	236.2	203.1	178.1	166.3	157.7	154.7	155.3	153.8
75°	198.3	217.7	209.6	179.4	152.8	136.6	126.7	121.2	118.6	119.9	118.1
77.5°	142.7	155.0	147.7	126.7	110.4	98.6	91.4	88.0	85.6	85.5	84.6
80°	107.7	114.9	110.9	98.2	84.7	74.8	69.0	66.7	65.3	64.9	64.5
82.5°	76.7	82.8	78.1	69.4	60.2	54.2	51.0	48.0	47.0	47.3	46.8
85°	38.7	41.0	39.2	33.8	30.2	27.5	25.7	24.4	23.4	23.8	23.0
87.5°	16.4	16.4	14.7	12.9	11.8	10.3	9.9	8.9	8.5	8.9	8.9
90°	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9	2.8	4.6	6.6
92.5°	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0	15.4	14.9	14.4
95°	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4	44.6	36.8	28.9
97.5°	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4	101.9	98.3	94.8
100°	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3	149.0	152.9	156.7
102.5°	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6	193.4	196.1	198.9
105°	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1	258.2	260.3	262.4
107.5°	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2	326.9	328.6	330.3
110°	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3	372.8	374.3	375.8





TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3	416.6	418.0	419.4
115°	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4	481.6	482.7	483.9
117.5°	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5	544.9	546.3	547.8
120°	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6	584.4	586.1	587.8
122.5°	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6	624.0	625.3	626.8
125°	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2	678.7	680.3	681.8
127.5°	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1	731.7	733.2	734.7
130°	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2	764.7	766.2	767.8
132.5°	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8	796.3	797.8	799.4
135°	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1	844.2	845.3	846.5
137.5°	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3	885.8	887.3	888.7
140°	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8	913.0	914.1	915.2
142.5°	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3	938.4	939.5	940.7
145°	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8	974.2	975.5	976.9
147.5°	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3	1007.3	1008.1	1009.0
150°	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0	1027.6	1028.1	1028.7
152.5°	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5	1045.9	1046.1	1046.4
155°	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7	1071.3	1070.9	1070.6
157.5°	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9	1091.9	1091.9	1091.8
160°	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3	1104.1	1104.0	1103.8
162.5°	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0	1115.5	1115.0	1114.6
165°	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1	1129.5	1128.9	1128.4
167.5°	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1	1140.4	1139.6	1138.8
170°	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3	1146.5	1145.8	1145.0
172.5°	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4	1150.6	1149.6	1148.7
175°	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8	1155.8	1154.9	1153.9
177.5°	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1	1157.4	1156.6	1155.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	914.8	912.3	908.7	903.3	899.0	892.1	892.1	893.2	893.2	892.9	892.1
5°	887.1	880.3	872.2	862.7	852.8	842.9	841.1	837.5	834.8	833.0	830.7
7.5°	857.8	845.8	834.0	820.7	808.7	798.7	791.7	785.9	782.2	778.3	775.4
10°	837.9	823.0	809.1	795.1	779.8	767.7	760.0	754.6	750.5	746.9	745.1
12.5°	814.5	797.5	782.0	768.8	752.0	739.5	732.2	729.7	724.9	717.3	713.3
15°	780.2	764.5	746.0	725.7	717.6	702.2	693.7	689.7	686.9	681.1	679.2
17.5°	751.0	730.3	709.6	694.4	679.3	666.9	662.1	657.1	653.5	648.7	647.3
20°	727.5	709.0	690.1	673.9	658.1	644.5	640.5	636.9	633.3	631.0	629.2
22.5°	703.7	685.3	669.5	654.4	637.6	628.7	624.3	620.4	617.8	616.3	614.5
25°	670.3	654.0	636.5	622.9	609.4	603.6	600.8	598.6	596.8	594.5	594.1
27.5°	640.3	622.7	608.4	595.8	586.1	581.2	578.6	577.5	577.9	578.7	579.2
30°	617.9	601.8	590.0	579.2	570.2	565.7	565.2	565.2	567.1	567.5	568.4
32.5°	597.4	584.1	572.4	561.9	555.1	552.0	553.7	553.7	555.2	556.3	557.9
35°	567.5	555.8	546.7	537.8	531.9	533.2	534.2	535.0	537.3	540.0	541.8
37.5°	538.9	528.7	519.4	512.3	509.6	512.0	514.2	516.1	518.8	520.8	522.6
40°	518.3	510.7	501.7	495.3	496.3	497.7	499.5	501.7	503.9	505.3	507.1
42.5°	499.2	491.2	484.4	479.1	480.4	482.2	483.2	484.4	487.0	489.4	490.5
45°	470.1	463.8	457.5	454.3	455.3	456.2	457.0	458.4	460.6	462.4	463.0
47.5°	437.4	433.0	428.8	425.7	427.1	426.8	427.9	430.8	431.5	432.7	435.1
50°	416.5	412.4	407.5	406.6	406.6	406.6	407.0	410.6	410.6	412.4	414.2
52.5°	393.4	390.8	387.6	386.0	385.3	385.3	387.2	389.0	389.7	392.3	394.1
55°	359.2	356.5	353.9	352.5	351.5	352.5	356.1	357.0	359.2	360.6	362.0
57.5°	323.6	321.6	319.4	318.7	318.5	319.7	321.7	324.3	324.9	329.1	331.1
60°	300.2	297.0	295.2	295.2	294.4	298.4	297.5	302.0	302.9	305.6	308.8
62.5°	276.0	271.8	271.0	271.0	272.3	273.5	274.7	276.7	279.1	282.5	285.0
65°	237.1	234.9	238.0	237.5	236.6	239.4	239.4	241.6	244.3	247.5	252.4
67.5°	200.2	199.1	199.3	199.3	200.7	202.2	203.5	205.4	208.7	212.1	215.2
70°	175.3	176.7	174.4	176.2	177.6	178.1	178.9	181.7	185.3	187.5	191.1
72.5°	151.2	151.1	151.4	152.1	153.4	154.2	155.2	158.3	162.2	164.1	166.9
75°	116.3	115.8	117.2	117.2	119.4	120.4	121.2	122.6	126.2	128.9	131.1
77.5°	84.9	85.5	85.2	86.7	86.1	86.3	89.0	90.4	90.7	96.1	97.3
80°	64.0	64.9	65.3	65.8	66.3	65.3	68.5	69.8	69.8	73.0	75.3
82.5°	46.0	46.5	47.7	48.1	48.2	49.2	49.4	50.4	51.5	52.9	55.8
85°	23.0	24.4	24.8	24.4	24.8	23.8	25.2	25.7	26.2	26.2	26.2
87.5°	9.0	9.7	9.8	10.7	10.8	11.7	11.9	11.3	11.5	12.7	11.4
90°	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1	22.9	23.7	24.3
92.5°	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5	25.7	26.9	27.6
95°	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3	30.7	32.0	32.6
97.5°	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7	32.3	33.8	34.6
100°	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4	33.0	34.4	35.3
102.5°	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1	42.4	37.6	35.4
105°	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6	86.8	53.0	36.2
107.5°	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4	270.6	245.8	220.7
110°	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0	368.7	362.4	345.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1	431.3	431.4	428.5
115°	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1	499.0	500.9	502.3
117.5°	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9	558.4	559.9	560.8
120°	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1	597.5	599.1	599.9
122.5°	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3	635.4	636.5	637.1
125°	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3	688.6	689.1	689.4
127.5°	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4	743.0	743.6	743.7
130°	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0	775.8	776.5	776.7
132.5°	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9	806.7	807.4	807.5
135°	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8	853.4	853.9	853.9
137.5°	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6	895.5	896.4	896.6
140°	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1	921.9	922.6	922.8
142.5°	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2	946.8	947.4	947.4
145°	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4	981.7	982.1	982.3
147.5°	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8	1013.1	1013.6	1013.3
150°	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1	1032.4	1032.9	1032.7
152.5°	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1	1049.8	1050.5	1050.4
155°	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7	1073.7	1074.6	1074.5
157.5°	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2	1094.3	1095.5	1095.4
160°	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9	1106.0	1107.2	1107.1
162.5°	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5	1116.8	1118.1	1118.2
165°	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7	1131.3	1132.8	1132.9
167.5°	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8
170°	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0
172.5°	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1	1152.5	1154.1	1154.0
175°	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0	1157.4	1158.6	1158.6
177.5°	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8	1159.1	1160.3	1160.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	889.6	889.2	891.7	889.9	891.7	889.2	889.6	892.1	892.9	893.2	893.2
5°	828.0	829.4	824.8	824.8	824.8	829.4	828.0	830.7	833.0	834.8	837.5
7.5°	773.2	771.2	771.4	769.0	771.4	771.2	773.2	775.4	778.3	782.2	785.9
10°	739.7	737.0	736.1	736.5	736.1	737.0	739.7	745.1	746.9	750.5	754.6
12.5°	711.9	711.4	705.4	705.5	705.4	711.4	711.9	713.3	717.3	724.9	729.7
15°	679.2	670.7	669.8	672.5	669.8	670.7	679.2	679.2	681.1	686.9	689.7
17.5°	646.5	642.0	642.3	640.9	642.3	642.0	646.5	647.3	648.7	653.5	657.1
20°	629.2	626.5	626.1	622.9	626.1	626.5	629.2	629.2	631.0	633.3	636.9
22.5°	613.4	612.5	612.8	609.2	612.8	612.5	613.4	614.5	616.3	617.8	620.4
25°	593.7	595.9	594.1	594.1	594.1	595.9	593.7	594.1	594.5	596.8	598.6
27.5°	580.3	580.2	579.3	579.3	579.3	580.2	580.3	579.2	578.7	577.9	577.5
30°	570.2	569.7	570.7	570.7	570.7	569.7	570.2	568.4	567.5	567.1	565.2
32.5°	560.1	560.8	560.9	561.3	560.9	560.8	560.1	557.9	556.3	555.2	553.7
35°	544.5	544.9	546.3	545.4	546.3	544.9	544.5	541.8	540.0	537.3	535.0
37.5°	523.4	525.5	525.0	525.7	525.0	525.5	523.4	522.6	520.8	518.8	516.1
40°	507.6	508.9	508.4	508.4	508.4	508.9	507.6	507.1	505.3	503.9	501.7
42.5°	491.3	492.3	491.1	490.4	491.1	492.3	491.3	490.5	489.4	487.0	484.4
45°	464.7	463.8	465.2	463.4	465.2	463.8	464.7	463.0	462.4	460.6	458.4
47.5°	435.0	435.8	436.3	437.6	436.3	435.8	435.0	435.1	432.7	431.5	430.8
50°	415.2	417.8	417.8	417.4	417.8	417.8	415.2	414.2	412.4	410.6	410.6
52.5°	395.6	396.9	398.7	398.6	398.7	396.9	395.6	394.1	392.3	389.7	389.0
55°	365.6	366.4	367.4	367.8	367.4	366.4	365.6	362.0	360.6	359.2	357.0
57.5°	334.3	334.0	336.1	336.8	336.1	334.0	334.3	331.1	329.1	324.9	324.3
60°	312.4	312.4	316.0	317.4	316.0	312.4	312.4	308.8	305.6	302.9	302.0
62.5°	289.0	290.4	293.9	292.1	293.9	290.4	289.0	285.0	282.5	279.1	276.7
65°	254.7	258.3	257.9	259.6	257.9	258.3	254.7	252.4	247.5	244.3	241.6
67.5°	218.9	221.1	224.4	224.6	224.4	221.1	218.9	215.2	212.1	208.7	205.4
70°	194.8	197.0	198.8	200.1	198.8	197.0	194.8	191.1	187.5	185.3	181.7
72.5°	171.3	172.5	176.8	174.9	176.8	172.5	171.3	166.9	164.1	162.2	158.3
75°	134.3	137.5	140.2	138.8	140.2	137.5	134.3	131.1	128.9	126.2	122.6
77.5°	99.4	102.5	103.8	102.6	103.8	102.5	99.4	97.3	96.1	90.7	90.4
80°	78.4	78.0	80.7	80.2	80.7	78.0	78.4	75.3	73.0	69.8	69.8
82.5°	57.5	57.1	58.3	58.6	58.3	57.1	57.5	55.8	52.9	51.5	50.4
85°	28.0	29.3	27.5	27.0	27.5	29.3	28.0	26.2	26.2	26.2	25.7
87.5°	11.5	11.5	11.2	10.9	11.2	11.5	11.5	11.4	12.7	11.5	11.3
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1
92.5°	27.8	28.1	28.3	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5
95°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3
97.5°	34.9	35.0	35.2	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7
100°	35.6	35.7	35.9	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4
102.5°	35.7	36.1	36.4	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1
105°	36.7	37.0	37.5	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6
107.5°	195.2	169.7	144.2	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4
110°	318.2	290.9	263.6	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0



TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.8	417.0	411.2	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1
115°	503.0	503.8	504.5	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1
117.5°	560.9	561.0	561.2	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9
120°	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1
122.5°	637.2	637.4	637.5	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3
125°	689.8	690.2	690.6	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3
127.5°	743.3	743.0	742.5	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4
130°	776.4	775.9	775.6	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0
132.5°	807.0	806.5	806.0	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9
135°	853.4	852.8	852.2	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8
137.5°	896.3	896.0	895.5	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6
140°	922.4	922.0	921.7	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1
142.5°	946.9	946.4	945.9	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2
145°	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4
147.5°	1012.4	1011.6	1010.6	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8
150°	1032.2	1031.6	1031.0	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1
152.5°	1049.6	1048.7	1047.8	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1
155°	1073.4	1072.3	1071.1	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7
157.5°	1093.8	1092.4	1090.9	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2
160°	1105.8	1104.4	1103.1	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9
162.5°	1117.0	1115.8	1114.7	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5
165°	1131.5	1130.2	1128.9	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7
167.5°	1142.3	1140.7	1139.2	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7
170°	1148.5	1146.9	1145.4	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9
172.5°	1152.4	1150.6	1149.0	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1
175°	1157.0	1155.5	1154.0	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0
177.5°	1158.6	1157.1	1155.5	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	892.1	892.1	899.0	903.3	908.7	912.3	914.8	917.4	921.7	927.5	933.9
5°	841.1	842.9	852.8	862.7	872.2	880.3	887.1	895.2	905.1	917.3	930.8
7.5°	791.7	798.7	808.7	820.7	834.0	845.8	857.8	871.2	885.1	903.0	922.0
10°	760.0	767.7	779.8	795.1	809.1	823.0	837.9	852.4	870.0	891.1	915.5
12.5°	732.2	739.5	752.0	768.8	782.0	797.5	814.5	833.3	853.0	878.5	906.1
15°	693.7	702.2	717.6	725.7	746.0	764.5	780.2	807.3	832.5	858.7	890.7
17.5°	662.1	666.9	679.3	694.4	709.6	730.3	751.0	773.5	798.7	830.6	870.6
20°	640.5	644.5	658.1	673.9	690.1	709.0	727.5	750.0	778.4	812.3	855.5
22.5°	624.3	628.7	637.6	654.4	669.5	685.3	703.7	730.6	760.8	793.8	840.8
25°	600.8	603.6	609.4	622.9	636.5	654.0	670.3	695.5	726.6	765.3	812.3
27.5°	578.6	581.2	586.1	595.8	608.4	622.7	640.3	661.8	693.4	735.5	785.2
30°	565.2	565.7	570.2	579.2	590.0	601.8	617.9	642.3	672.1	714.9	767.2
32.5°	553.7	552.0	555.1	561.9	572.4	584.1	597.4	621.4	650.1	692.2	745.9
35°	534.2	533.2	531.9	537.8	546.7	555.8	567.5	585.6	617.9	657.2	713.5
37.5°	514.2	512.0	509.6	512.3	519.4	528.7	538.9	555.0	582.9	626.1	680.0
40°	499.5	497.7	496.3	495.3	501.7	510.7	518.3	533.6	559.8	600.8	654.0
42.5°	483.2	482.2	480.4	479.1	484.4	491.2	499.2	512.8	538.9	577.4	627.8
45°	457.0	456.2	455.3	454.3	457.5	463.8	470.1	480.0	502.6	540.0	585.6
47.5°	427.9	426.8	427.1	425.7	428.8	433.0	437.4	448.1	469.7	499.9	533.1
50°	407.0	406.6	406.6	406.6	407.5	412.4	416.5	424.6	444.4	474.7	498.5
52.5°	387.2	385.3	385.3	386.0	387.6	390.8	393.4	402.3	419.6	444.4	466.1
55°	356.1	352.5	351.5	352.5	353.9	356.5	359.2	366.4	381.3	399.8	412.4
57.5°	321.7	319.7	318.5	318.7	319.4	321.6	323.6	331.5	343.2	352.8	360.9
60°	297.5	298.4	294.4	295.2	295.2	297.0	300.2	305.1	315.0	321.8	329.9
62.5°	274.7	273.5	272.3	271.0	271.0	271.8	276.0	279.9	288.3	291.9	298.3
65°	239.4	239.4	236.6	237.5	238.0	234.9	237.1	241.6	247.0	248.4	254.3
67.5°	203.5	202.2	200.7	199.3	199.3	199.1	200.2	202.5	206.6	207.0	211.5
70°	178.9	178.1	177.6	176.2	174.4	176.7	175.3	177.6	179.9	180.3	183.0
72.5°	155.2	154.2	153.4	152.1	151.4	151.1	151.2	153.8	155.3	154.7	157.7
75°	121.2	120.4	119.4	117.2	117.2	115.8	116.3	118.1	119.9	118.6	121.2
77.5°	89.0	86.3	86.1	86.7	85.2	85.5	84.9	84.6	85.5	85.6	88.0
80°	68.5	65.3	66.3	65.8	65.3	64.9	64.0	64.5	64.9	65.3	66.7
82.5°	49.4	49.2	48.2	48.1	47.7	46.5	46.0	46.8	47.3	47.0	48.0
85°	25.2	23.8	24.8	24.4	24.8	24.4	23.0	23.0	23.8	23.4	24.4
87.5°	11.9	11.7	10.8	10.7	9.8	9.7	9.0	8.9	8.9	8.5	8.9
90°	21.4	20.7	18.2	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9
92.5°	23.2	22.0	20.1	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0
95°	28.0	26.6	24.5	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4
97.5°	29.2	27.6	41.4	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4
100°	29.9	28.3	58.1	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3
102.5°	51.8	56.6	89.1	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6
105°	154.4	188.2	205.4	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1
107.5°	320.2	345.0	342.2	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2
110°	381.3	387.6	385.5	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3



TEST NUMBER: P331982-935

CATALOG NUMBER: S123DIP-S775D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.0	430.9	428.8	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3
115°	495.2	493.3	491.5	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4
117.5°	555.3	553.8	552.9	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5
120°	594.5	593.0	592.5	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6
122.5°	633.3	632.1	631.5	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6
125°	687.9	687.5	686.7	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2
127.5°	741.8	741.1	740.2	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1
130°	774.2	773.4	772.7	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2
132.5°	805.2	804.4	803.8	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8
135°	852.2	851.7	850.9	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1
137.5°	893.6	892.8	892.3	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3
140°	920.3	919.5	919.0	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8
142.5°	945.6	945.0	944.4	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3
145°	980.9	980.6	980.2	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8
147.5°	1012.4	1012.0	1011.7	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3
150°	1031.7	1031.3	1030.9	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0
152.5°	1048.4	1047.8	1047.6	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5
155°	1071.8	1070.8	1070.7	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7
157.5°	1092.1	1090.9	1091.1	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9
160°	1103.8	1102.6	1102.8	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3
162.5°	1114.2	1112.9	1113.1	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0
165°	1128.2	1126.7	1126.9	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1
167.5°	1139.2	1137.6	1137.6	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1
170°	1145.4	1143.8	1143.8	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3
172.5°	1149.5	1148.0	1147.8	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4
175°	1154.7	1153.3	1153.1	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8
177.5°	1156.6	1155.4	1155.2	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P331982-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	936.1	937.9	944.1	948.4	953.4	956.3	959.2	961.4	964.2	964.9	975.4
5°	940.3	949.3	965.1	976.8	991.2	1006.9	1017.8	1022.8	1035.8	1046.6	1068.2
7.5°	939.1	958.3	982.1	1006.8	1033.3	1057.8	1079.1	1104.3	1122.3	1149.3	1175.8
10°	938.0	963.7	994.4	1025.9	1062.9	1097.1	1127.7	1162.0	1190.4	1227.9	1259.8
12.5°	934.8	965.9	1008.4	1045.8	1090.6	1137.9	1183.3	1227.3	1252.4	1314.7	1344.2
15°	926.8	963.7	1016.9	1073.7	1135.4	1191.4	1249.1	1295.0	1369.3	1423.9	1458.6
17.5°	911.5	963.2	1026.2	1094.8	1169.8	1243.5	1308.9	1378.6	1457.5	1523.5	1593.9
20°	904.2	961.0	1031.3	1107.1	1185.0	1268.4	1342.8	1426.6	1512.7	1577.6	1667.8
22.5°	890.9	955.2	1031.0	1115.3	1198.7	1285.0	1372.0	1456.6	1556.0	1645.5	1731.2
25°	869.0	941.2	1019.6	1113.8	1211.6	1298.1	1402.3	1514.5	1618.2	1733.1	1818.8
27.5°	846.1	923.2	1001.8	1089.3	1194.6	1297.3	1428.2	1555.1	1681.9	1781.1	1844.4
30°	828.5	903.3	984.5	1072.8	1176.9	1299.1	1445.5	1583.9	1707.4	1792.6	1828.2
32.5°	809.3	885.3	957.0	1049.7	1160.7	1298.0	1456.4	1600.9	1708.9	1765.6	1758.7
35°	779.4	842.9	912.7	1002.0	1132.7	1290.0	1462.7	1602.4	1668.7	1656.5	1564.5
37.5°	736.1	789.5	858.3	956.1	1100.3	1273.3	1450.1	1554.9	1550.6	1451.5	1318.3
40°	709.0	754.6	820.8	923.6	1075.0	1262.6	1430.2	1498.3	1440.6	1302.2	1142.6
42.5°	673.7	715.6	781.9	887.5	1047.2	1240.5	1392.3	1412.1	1299.2	1140.0	993.7
45°	618.9	655.8	724.4	833.4	1005.6	1192.7	1299.9	1251.7	1099.8	935.3	824.0
47.5°	560.0	598.4	664.3	776.4	945.4	1120.7	1171.7	1069.2	913.2	779.8	677.6
50°	522.9	559.8	624.3	737.4	904.7	1061.5	1082.7	950.2	806.8	689.7	605.8
52.5°	485.3	520.1	583.5	697.1	857.0	993.0	979.9	844.9	713.1	613.2	547.4
55°	429.6	462.4	522.9	629.2	774.8	882.5	835.3	706.4	597.3	519.7	469.7
57.5°	379.6	411.2	463.3	559.4	686.0	760.0	699.7	591.1	504.4	444.7	407.4
60°	345.7	373.7	423.3	512.5	622.5	678.8	619.3	523.3	450.3	402.5	369.2
62.5°	313.7	337.9	383.9	464.9	560.4	607.8	547.6	466.3	404.2	361.8	333.5
65°	265.0	287.1	327.7	390.8	469.2	500.8	448.9	383.1	334.9	303.3	284.4
67.5°	220.7	239.4	274.5	324.2	381.9	404.8	365.4	314.4	278.1	252.8	237.7
70°	191.1	207.3	234.9	277.7	329.9	347.5	310.6	268.6	242.0	221.8	207.8
72.5°	166.3	178.1	203.1	236.2	279.8	293.8	268.0	231.2	206.4	191.1	180.0
75°	126.7	136.6	152.8	179.4	209.6	217.7	198.3	175.3	158.7	147.8	139.3
77.5°	91.4	98.6	110.4	126.7	147.7	155.0	142.7	127.3	115.2	107.9	103.1
80°	69.0	74.8	84.7	98.2	110.9	114.9	107.7	96.0	87.5	83.4	79.3
82.5°	51.0	54.2	60.2	69.4	78.1	82.8	76.7	69.7	65.1	61.4	59.8
85°	25.7	27.5	30.2	33.8	39.2	41.0	38.7	36.9	34.3	32.0	32.0
87.5°	9.9	10.3	11.8	12.9	14.7	16.4	16.4	16.3	16.4	16.2	15.9
90°	2.8	4.6	6.6	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1
92.5°	15.4	14.9	14.4	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5
95°	44.6	36.8	28.9	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3
97.5°	101.9	98.3	94.8	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7
100°	149.0	152.9	156.7	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4
102.5°	193.4	196.1	198.9	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1
105°	258.2	260.3	262.4	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6
107.5°	326.9	328.6	330.3	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4
110°	372.8	374.3	375.8	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	416.6	418.0	419.4	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1
115°	481.6	482.7	483.9	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1
117.5°	544.9	546.3	547.8	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9
120°	584.4	586.1	587.8	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1
122.5°	624.0	625.3	626.8	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3
125°	678.7	680.3	681.8	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3
127.5°	731.7	733.2	734.7	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4
130°	764.7	766.2	767.8	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0
132.5°	796.3	797.8	799.4	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9
135°	844.2	845.3	846.5	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8
137.5°	885.8	887.3	888.7	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6
140°	913.0	914.1	915.2	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1
142.5°	938.4	939.5	940.7	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2
145°	974.2	975.5	976.9	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4
147.5°	1007.3	1008.1	1009.0	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8
150°	1027.6	1028.1	1028.7	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1
152.5°	1045.9	1046.1	1046.4	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1
155°	1071.3	1070.9	1070.6	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7
157.5°	1091.9	1091.9	1091.8	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2
160°	1104.1	1104.0	1103.8	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9
162.5°	1115.5	1115.0	1114.6	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5
165°	1129.5	1128.9	1128.4	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7
167.5°	1140.4	1139.6	1138.8	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7
170°	1146.5	1145.8	1145.0	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9
172.5°	1150.6	1149.6	1148.7	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1
175°	1155.8	1154.9	1153.9	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0
177.5°	1157.4	1156.6	1155.8	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	979.0	979.4	983.3	986.3	984.8	986.6	987.3
5°	1069.6	1085.9	1094.4	1100.7	1101.2	1101.6	1105.3
7.5°	1198.1	1215.5	1228.2	1247.5	1253.3	1259.8	1257.9
10°	1291.8	1317.5	1339.6	1351.3	1364.0	1382.4	1367.6
12.5°	1379.5	1425.0	1458.6	1476.9	1488.8	1492.5	1485.1
15°	1524.0	1583.5	1615.5	1614.5	1655.2	1672.8	1645.2
17.5°	1656.5	1711.4	1755.4	1778.0	1811.7	1819.2	1815.8
20°	1737.7	1797.6	1831.9	1870.6	1888.2	1903.9	1906.7
22.5°	1807.6	1861.4	1898.2	1930.4	1945.2	1952.7	1957.1
25°	1879.6	1922.0	1944.1	1955.3	1959.4	1958.5	1952.7
27.5°	1874.7	1877.9	1853.6	1829.7	1808.4	1784.3	1776.0
30°	1826.0	1788.1	1720.5	1682.2	1625.8	1581.2	1599.2
32.5°	1698.0	1622.6	1546.7	1462.9	1393.6	1373.9	1354.0
35°	1449.1	1316.6	1239.2	1148.9	1112.9	1076.9	1052.1
37.5°	1172.4	1069.9	977.9	918.9	882.9	860.1	847.7
40°	1013.7	921.4	845.6	797.8	770.3	744.7	741.1
42.5°	887.2	801.2	744.2	706.2	679.8	668.9	661.0
45°	726.6	666.7	628.4	601.3	583.8	577.0	567.9
47.5°	615.0	572.7	543.9	525.5	512.2	507.2	506.4
50°	552.6	517.5	496.3	481.8	471.5	469.7	462.4
52.5°	505.8	475.3	458.7	446.2	438.7	433.6	431.4
55°	439.0	418.7	403.9	396.7	390.8	385.8	385.8
57.5°	384.1	367.2	357.3	351.2	349.4	345.9	343.6
60°	350.3	335.8	328.1	322.7	319.2	319.6	315.6
62.5°	317.0	307.7	300.4	295.0	290.7	290.8	291.0
65°	270.0	262.8	257.4	255.5	252.9	249.7	250.6
67.5°	228.8	222.1	217.8	214.7	213.9	212.2	214.7
70°	199.2	194.2	191.1	188.4	187.5	188.0	190.2
72.5°	172.2	168.7	166.6	165.3	163.3	163.4	165.0
75°	135.3	132.5	130.7	129.3	128.9	128.9	128.9
77.5°	99.4	98.8	97.9	95.9	96.0	96.5	96.6
80°	78.4	77.1	76.6	75.8	74.4	73.4	75.8
82.5°	58.6	57.3	56.8	56.7	54.5	54.3	56.2
85°	31.5	30.2	30.7	30.2	30.2	29.8	29.8
87.5°	15.8	15.6	15.3	15.8	15.5	15.2	16.0
90°	22.9	23.7	24.3	24.6	25.1	25.4	25.7
92.5°	25.7	26.9	27.6	27.8	28.1	28.3	28.5
95°	30.7	32.0	32.6	32.6	32.6	32.6	32.6
97.5°	32.3	33.8	34.6	34.9	35.0	35.2	35.4
100°	33.0	34.4	35.3	35.6	35.7	35.9	36.1
102.5°	42.4	37.6	35.4	35.7	36.1	36.4	36.8
105°	86.8	53.0	36.2	36.7	37.0	37.5	37.8
107.5°	270.6	245.8	220.7	195.2	169.7	144.2	118.7
110°	368.7	362.4	345.6	318.2	290.9	263.6	236.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	431.3	431.4	428.5	422.8	417.0	411.2	405.4
115°	499.0	500.9	502.3	503.0	503.8	504.5	505.3
117.5°	558.4	559.9	560.8	560.9	561.0	561.2	561.4
120°	597.5	599.1	599.9	599.9	599.9	599.9	599.9
122.5°	635.4	636.5	637.1	637.2	637.4	637.5	637.7
125°	688.6	689.1	689.4	689.8	690.2	690.6	691.0
127.5°	743.0	743.6	743.7	743.3	743.0	742.5	742.2
130°	775.8	776.5	776.7	776.4	775.9	775.6	775.2
132.5°	806.7	807.4	807.5	807.0	806.5	806.0	805.5
135°	853.4	853.9	853.9	853.4	852.8	852.2	851.7
137.5°	895.5	896.4	896.6	896.3	896.0	895.5	895.2
140°	921.9	922.6	922.8	922.4	922.0	921.7	921.3
142.5°	946.8	947.4	947.4	946.9	946.4	945.9	945.4
145°	981.7	982.1	982.3	982.3	982.3	982.3	982.3
147.5°	1013.1	1013.6	1013.3	1012.4	1011.6	1010.6	1009.8
150°	1032.4	1032.9	1032.7	1032.2	1031.6	1031.0	1030.4
152.5°	1049.8	1050.5	1050.4	1049.6	1048.7	1047.8	1046.9
155°	1073.7	1074.6	1074.5	1073.4	1072.3	1071.1	1070.0
157.5°	1094.3	1095.5	1095.4	1093.8	1092.4	1090.9	1089.4
160°	1106.0	1107.2	1107.1	1105.8	1104.4	1103.1	1101.7
162.5°	1116.8	1118.1	1118.2	1117.0	1115.8	1114.7	1113.4
165°	1131.3	1132.8	1132.9	1131.5	1130.2	1128.9	1127.6
167.5°	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6
170°	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8
172.5°	1152.5	1154.1	1154.0	1152.4	1150.6	1149.0	1147.3
175°	1157.4	1158.6	1158.6	1157.0	1155.5	1154.0	1152.4
177.5°	1159.1	1160.3	1160.1	1158.6	1157.1	1155.5	1154.0
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8

(END OF REPORT)