

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: P332193-930

Luminaire Tested: **S123DIW-S1000D1030U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332193-930  
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: S123DIW-S1000D1030U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

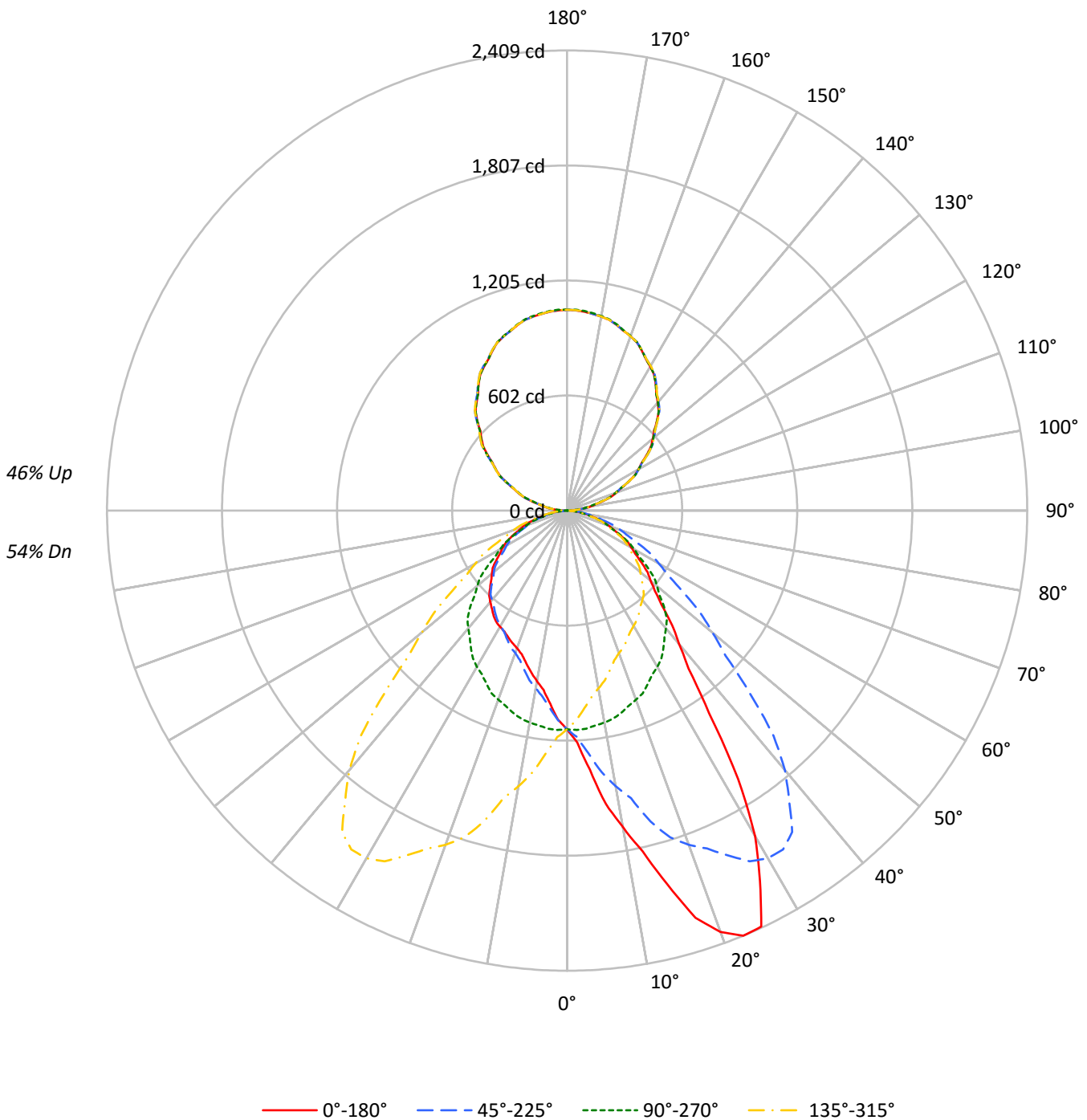
Lumens per Lamp: N/A  
Luminaire Lumens: 6372.6 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	14

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

	0°	90°	180°	270°
0°	12326	12326	12326	12326
5°	14699	12379	10970	12379
10°	18398	12316	9908	12316
15°	22566	12217	9225	12217
20°	26882	12062	8782	12062
25°	28544	11873	8684	11873
30°	24467	11737	8730	11737
35°	17015	11540	8821	11540
40°	12816	11311	8793	11311
45°	10641	10971	8681	10971
50°	9532	10275	8602	10275
55°	8912	9526	8496	9526
60°	8359	8742	8409	8742
65°	7857	7969	8140	7969
70°	7371	7091	7751	7091
75°	6600	6209	7107	6209
80°	5777	5089	6118	5089
85°	4520	3693	4113	3693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.8
10°-20°	361.7	5.7
20°-30°	607.1	9.5
30°-40°	687.4	10.8
40°-50°	616.4	9.7
50°-60°	497.4	7.8
60°-70°	346.6	5.4
70°-80°	182.2	2.9
80°-90°	47.7	0.7
90°-100°	68.5	1.1
100°-110°	205.0	3.2
110°-120°	348.7	5.5
120°-130°	458.7	7.2
130°-140°	515.5	8.1
140°-150°	506.8	8.0
150°-160°	426.6	6.7
160°-170°	284.0	4.5
170°-180°	99.4	1.6
0°-30°	1081.6	17.0
0°-40°	1768.9	27.8
0°-60°	2882.8	45.2
0°-90°	3459.3	54.3
90°-120°	622.2	9.8
90°-150°	2103.2	33.0
90°-180°	2913.0	45.7
0°-180°	6372.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1360	1146	1015	1146	1360	141
15°	2025	1096	828	1096	2025	585
25°	2403	1000	731	1000	2403	1054
35°	1295	878	671	878	1295	841
45°	699	721	570	721	699	553
55°	475	508	453	508	475	426
65°	308	313	320	313	308	307
75°	159	149	171	149	159	170
85°	37	30	33	30	37	44
90°	25	1	25	1	25	14
95°	64	49	64	49	64	66
105°	197	186	197	186	197	209
115°	352	351	352	351	352	348
125°	508	514	508	514	508	454
135°	666	667	666	667	666	512
145°	809	809	809	809	809	505
155°	924	926	924	926	924	426
165°	1005	1008	1005	1008	1005	284
175°	1045	1049	1045	1049	1045	99
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°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1215.2	1214.4	1212.1	1213.9	1210.4	1205.5	1205.0	1200.6	1187.7	1186.8	1183.3
5°	1360.4	1355.9	1355.4	1354.9	1347.0	1336.5	1316.5	1314.9	1288.3	1275.0	1258.8
7.5°	1548.3	1550.7	1542.5	1535.5	1511.7	1496.1	1474.6	1447.2	1414.5	1381.4	1359.3
10°	1683.3	1701.6	1678.9	1663.3	1648.9	1621.7	1590.1	1550.7	1511.3	1465.3	1430.3
12.5°	1828.0	1837.0	1832.4	1817.8	1795.4	1754.0	1697.9	1654.6	1618.3	1541.6	1510.6
15°	2025.0	2058.9	2037.3	1987.3	1988.4	1949.1	1875.8	1795.4	1752.6	1685.5	1594.0
17.5°	2235.0	2239.2	2230.0	2188.3	2160.6	2106.5	2038.9	1961.8	1875.3	1794.0	1697.0
20°	2346.8	2343.5	2324.1	2302.4	2254.7	2212.6	2138.8	2052.8	1941.8	1861.9	1756.0
22.5°	2409.0	2403.4	2394.2	2376.1	2336.4	2291.2	2224.9	2130.9	2025.3	1915.2	1792.8
25°	2403.4	2410.6	2411.7	2406.8	2392.9	2365.7	2313.5	2238.6	2133.2	1991.8	1864.2
27.5°	2185.9	2196.2	2225.8	2252.1	2281.5	2311.5	2307.5	2270.3	2192.3	2070.0	1914.1
30°	1968.5	1946.3	2001.2	2070.5	2117.7	2200.9	2247.5	2250.3	2206.4	2101.6	1949.5
32.5°	1666.6	1691.0	1715.3	1800.7	1903.7	1997.2	2089.9	2164.6	2173.2	2103.4	1970.4
35°	1294.9	1325.4	1369.8	1414.2	1525.2	1620.6	1783.7	1925.7	2038.9	2053.9	1972.3
37.5°	1043.5	1058.6	1086.6	1131.1	1203.7	1316.9	1443.1	1622.6	1786.6	1908.5	1913.8
40°	912.1	916.6	948.2	982.0	1040.8	1134.0	1247.7	1406.4	1602.8	1773.2	1844.2
42.5°	813.6	823.3	836.7	869.3	916.1	986.2	1091.9	1223.1	1403.1	1599.1	1738.1
45°	699.0	710.1	718.4	740.1	773.4	820.5	894.4	1014.2	1151.2	1353.7	1540.7
47.5°	623.4	624.3	630.5	646.8	669.4	704.8	757.0	834.0	959.8	1124.1	1316.0
50°	569.2	578.1	580.3	593.0	610.8	636.9	680.2	745.7	848.9	993.1	1169.5
52.5°	531.1	533.7	540.0	549.2	564.7	585.0	622.5	673.8	754.7	877.7	1039.9
55°	474.9	474.9	481.0	488.2	497.1	515.4	540.4	578.1	639.7	735.2	869.4
57.5°	423.0	425.7	430.1	432.3	439.9	451.9	472.8	501.4	547.4	620.9	727.6
60°	388.3	393.4	392.8	397.2	403.9	413.4	431.0	454.4	495.5	554.2	644.2
62.5°	358.2	357.8	357.8	363.1	369.7	378.7	390.3	410.4	445.3	497.4	574.0
65°	308.5	307.4	311.3	314.5	316.8	323.4	332.3	350.1	373.4	412.2	471.6
67.5°	264.3	261.1	263.2	264.3	268.1	273.3	281.6	292.6	311.1	342.3	387.0
70°	234.2	231.4	230.8	231.9	235.2	239.1	245.2	255.8	273.0	297.9	330.7
72.5°	203.1	201.1	201.1	203.5	205.0	207.6	211.9	221.6	235.2	254.0	284.5
75°	158.7	158.7	158.7	159.2	160.9	163.1	166.4	171.5	182.0	195.3	215.8
77.5°	119.0	118.9	118.1	118.1	120.5	121.5	122.3	126.9	132.8	141.8	156.8
80°	93.2	90.4	91.6	93.2	94.3	94.9	96.5	97.7	102.6	107.6	118.1
82.5°	69.2	66.9	67.1	69.7	69.9	70.4	72.2	73.7	75.6	80.1	85.8
85°	36.6	36.6	37.2	37.2	37.7	37.2	38.8	39.4	39.4	42.2	45.5
87.5°	18.3	17.3	17.7	18.0	17.5	17.9	18.2	18.4	18.8	19.1	19.0
90°	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3	20.5	19.8	17.4
92.5°	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9	32.3	31.7	30.3
95°	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6	61.9	61.1	59.7
97.5°	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3	96.5	95.6	94.6
100°	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5	122.0	121.4	120.5
102.5°	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6	151.1	150.5	149.3
105°	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9	194.9	194.9	193.3
107.5°	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9	241.2	240.7	240.0
110°	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2	272.5	271.7	271.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6	303.7	302.8	302.7
115°	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2	352.0	351.9	352.2
117.5°	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4	400.4	400.5	400.9
120°	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4	432.6	432.8	433.7
122.5°	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9	465.4	465.9	466.4
125°	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1	513.9	514.6	514.9
127.5°	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8	561.8	562.8	563.2
130°	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4	593.1	593.9	594.4
132.5°	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2	624.0	624.9	625.3
135°	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2	669.9	670.7	670.9
137.5°	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3	715.0	715.8	715.3
140°	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9	744.0	744.2	744.0
142.5°	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6	771.8	772.0	771.7
145°	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4	812.6	812.8	812.2
147.5°	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7	874.7	874.7	874.3
152.5°	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4	896.2	895.9	895.7
155°	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2	927.5	926.8	926.6
157.5°	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5	954.8	954.0	953.9
160°	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4	971.4	970.5	970.5
162.5°	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2	987.3	986.4	986.3
165°	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3	1007.1	1006.1	1006.1
167.5°	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2	1022.1
170°	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9	1030.9
172.5°	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4	1039.3	1038.1	1038.1
175°	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9	1046.8	1045.7	1045.7
177.5°	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2	1050.4	1049.5	1049.5
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1180.6	1177.0	1173.5	1167.3	1162.0	1154.5	1152.2	1149.6	1141.6	1134.5	1129.1
5°	1252.7	1239.4	1220.0	1202.2	1187.8	1168.4	1157.3	1145.7	1129.0	1114.0	1101.9
7.5°	1328.2	1302.0	1271.9	1239.2	1208.8	1179.5	1155.8	1134.8	1111.5	1089.4	1072.2
10°	1388.1	1350.4	1308.2	1262.7	1223.9	1186.2	1154.5	1126.8	1096.8	1070.7	1049.1
12.5°	1456.5	1400.5	1342.4	1287.1	1241.2	1188.9	1150.6	1115.2	1081.3	1049.9	1025.6
15°	1537.3	1466.3	1397.6	1321.5	1251.6	1186.2	1140.7	1096.3	1056.9	1024.7	993.7
17.5°	1611.0	1530.6	1439.9	1347.5	1263.1	1185.5	1121.9	1071.6	1022.4	983.0	952.0
20°	1652.8	1561.2	1458.6	1362.6	1269.4	1182.8	1113.0	1053.0	999.7	958.1	923.2
22.5°	1688.7	1581.6	1475.4	1372.8	1268.9	1175.7	1096.5	1034.9	977.1	936.4	899.2
25°	1726.0	1597.8	1491.3	1370.9	1255.0	1158.5	1069.7	999.7	942.1	894.4	856.1
27.5°	1757.9	1596.8	1470.3	1340.8	1233.0	1136.2	1041.5	966.5	905.2	853.4	814.6
30°	1779.2	1599.0	1448.6	1320.5	1211.7	1111.8	1019.7	944.3	880.0	827.2	790.6
32.5°	1792.6	1597.6	1428.6	1292.0	1177.9	1089.6	996.2	918.1	852.0	800.1	764.8
35°	1800.3	1587.9	1394.2	1233.3	1123.5	1037.5	959.3	878.2	808.9	760.7	720.7
37.5°	1784.8	1567.3	1354.3	1176.7	1056.5	971.8	906.0	837.0	770.6	717.5	683.1
40°	1760.4	1554.0	1323.2	1136.8	1010.3	928.7	872.7	805.0	739.6	689.1	656.9
42.5°	1713.8	1526.9	1289.1	1092.4	962.4	880.8	829.2	772.7	710.7	663.3	631.1
45°	1600.0	1468.0	1237.8	1025.8	891.5	807.2	761.7	720.7	664.6	618.6	590.8
47.5°	1442.3	1379.3	1163.7	955.6	817.7	736.5	689.3	656.2	615.3	578.1	551.5
50°	1332.6	1306.6	1113.5	907.7	768.4	689.1	643.6	613.6	584.2	547.1	522.6
52.5°	1206.2	1222.2	1054.9	857.9	718.3	640.3	597.5	573.6	546.9	516.4	495.1
55°	1028.1	1086.3	953.7	774.5	643.6	569.2	528.7	507.6	492.1	469.4	451.0
57.5°	861.3	935.4	844.3	688.5	570.2	506.1	467.2	444.3	434.3	422.4	408.0
60°	762.3	835.5	766.2	630.8	521.0	459.9	425.5	406.1	396.2	387.8	375.6
62.5°	674.0	748.1	689.8	572.3	472.5	416.0	386.0	367.0	359.3	355.0	344.5
65°	552.6	616.4	577.6	481.0	403.3	353.4	326.2	312.9	305.7	304.0	297.3
67.5°	449.7	498.3	470.0	399.0	337.9	294.7	271.7	260.3	254.8	254.2	249.2
70°	382.3	427.8	406.1	341.8	289.0	255.2	235.2	225.3	221.9	221.4	218.6
72.5°	329.9	361.6	344.4	290.7	250.0	219.2	204.6	194.2	190.4	191.2	189.3
75°	244.1	268.0	258.0	220.8	188.1	168.1	155.9	149.3	145.9	147.6	145.4
77.5°	175.6	190.8	181.7	156.0	135.8	121.4	112.4	108.3	105.3	105.2	104.2
80°	132.6	141.5	136.5	120.9	104.3	92.1	84.9	82.1	80.5	79.9	79.3
82.5°	94.4	102.0	96.1	85.4	74.1	66.8	62.7	59.0	57.8	58.1	57.6
85°	47.7	50.5	48.3	41.6	37.2	33.8	31.6	29.9	28.9	29.4	28.3
87.5°	19.4	19.4	17.6	15.4	14.1	12.5	12.1	10.8	10.3	10.7	10.6
90°	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8	2.7	4.5	6.4
92.5°	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0	21.2	22.5	23.7
95°	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8	50.0	51.3	52.6
97.5°	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6	87.5	88.5	89.4
100°	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3	113.4	114.5	115.6
102.5°	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1	142.8	143.4	144.1
105°	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9	186.2	186.6	186.9
107.5°	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8	236.9	237.2	237.4
110°	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5	268.8	269.2	269.5





TEST NUMBER: P332193-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5	301.7	301.9	302.1
115°	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1	351.6	352.1	352.7
117.5°	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0	401.3	401.7	402.0
120°	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0	433.1	434.2	435.3
122.5°	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4	465.2	466.0	466.8
125°	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8	514.3	514.9	515.4
127.5°	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4	560.5	561.7	562.9
130°	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8	591.3	592.7	594.2
132.5°	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1	621.6	623.1	624.6
135°	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6	667.6	668.8	669.8
137.5°	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6	710.5	711.3	712.2
140°	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2	740.2	741.1	742.0
142.5°	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4	767.3	768.2	769.1
145°	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6	809.0	809.3	809.8
147.5°	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6	846.3	846.9	847.7
150°	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4	871.8	872.1	872.5
152.5°	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6	893.1	893.6	894.1
155°	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9
157.5°	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4	954.1	953.9	953.7
160°	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2	971.8	971.4	971.1
162.5°	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1	987.6	987.0	986.5
165°	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5	1008.0	1007.5	1006.9
167.5°	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9	1024.2	1023.4	1022.7
170°	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1	1033.4	1032.7	1031.9
172.5°	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4	1040.6	1039.9	1039.2
175°	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0	1048.3	1047.6	1046.8
177.5°	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1	1051.6	1051.0	1050.4
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332193-930

CATALOG NUMBER: S123DIW-S1000D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1126.0	1122.9	1118.5	1111.8	1106.5	1098.0	1098.0	1099.4	1099.4	1098.9	1098.0
5°	1091.8	1083.5	1073.6	1061.9	1049.7	1037.5	1035.3	1030.9	1027.5	1025.2	1022.5
7.5°	1055.8	1041.1	1026.5	1010.2	995.3	983.0	974.4	967.4	962.8	957.9	954.4
10°	1031.4	1013.1	995.9	978.7	959.8	944.9	935.4	928.7	923.7	919.3	917.1
12.5°	1002.5	981.5	962.6	946.2	925.6	910.2	901.2	898.1	892.3	882.9	878.0
15°	960.3	940.9	918.2	893.2	883.2	864.4	853.9	848.9	845.5	838.3	836.1
17.5°	924.3	898.9	873.3	854.8	836.2	820.9	815.0	808.8	804.4	798.5	796.7
20°	895.4	872.7	849.4	829.4	810.0	793.4	788.4	783.9	779.5	776.7	774.5
22.5°	866.2	843.4	824.1	805.4	784.7	773.8	768.4	763.5	760.4	758.6	756.3
25°	825.0	805.0	783.4	766.7	750.1	742.9	739.6	736.8	734.6	731.8	731.2
27.5°	788.1	766.4	748.9	733.4	721.4	715.3	712.2	710.8	711.3	712.2	712.9
30°	760.7	740.7	726.3	712.9	701.8	696.3	695.7	695.7	698.0	698.5	699.6
32.5°	735.3	718.9	704.5	691.6	683.2	679.4	681.5	681.5	683.3	684.8	686.7
35°	698.5	684.0	672.9	661.9	654.7	656.3	657.5	658.5	661.3	664.6	666.9
37.5°	663.3	650.8	639.3	630.6	627.3	630.2	632.9	635.3	638.5	641.0	643.3
40°	638.1	628.6	617.5	609.8	610.8	612.5	614.7	617.5	620.3	621.9	624.2
42.5°	614.5	604.6	596.2	589.8	591.3	593.5	594.8	596.2	599.4	602.4	603.7
45°	578.7	570.9	563.1	559.2	560.4	561.5	562.6	564.3	567.0	569.2	569.8
47.5°	538.3	533.0	527.7	524.0	525.7	525.3	526.8	530.3	531.2	532.5	535.6
50°	512.7	507.6	501.6	500.4	500.4	500.4	501.0	505.4	505.4	507.6	509.9
52.5°	484.2	481.0	477.1	475.2	474.3	474.3	476.5	478.8	479.7	482.8	485.0
55°	442.2	438.9	435.5	433.8	432.8	433.8	438.3	439.4	442.2	443.8	445.5
57.5°	398.4	395.8	393.1	392.2	392.0	393.5	395.9	399.3	399.9	405.0	407.6
60°	369.5	365.6	363.4	363.4	362.3	367.3	366.2	371.7	372.8	376.2	380.0
62.5°	339.7	334.5	333.6	333.6	335.3	336.6	338.2	340.6	343.6	347.7	350.7
65°	291.8	289.0	292.9	292.4	291.3	294.6	294.6	297.3	300.7	304.6	310.7
67.5°	246.5	245.0	245.3	245.3	247.0	248.9	250.5	252.9	256.9	261.0	265.0
70°	215.8	217.5	214.7	217.0	218.6	219.2	220.3	223.6	228.0	230.8	235.2
72.5°	186.1	186.0	186.3	187.2	188.8	189.9	190.9	194.8	199.6	201.9	205.5
75°	143.2	142.6	144.2	144.2	147.0	148.1	149.3	150.9	155.3	158.7	161.4
77.5°	104.5	105.2	104.8	106.7	106.0	106.2	109.7	111.3	111.8	118.3	119.8
80°	78.8	79.9	80.5	81.0	81.5	80.5	84.3	86.0	86.0	89.8	92.6
82.5°	56.6	57.2	58.7	59.3	59.4	60.5	60.8	62.0	63.3	65.1	68.6
85°	28.3	29.9	30.5	29.9	30.5	29.4	31.1	31.6	32.2	32.2	32.2
87.5°	10.5	11.4	11.4	12.3	12.4	13.3	13.5	12.7	12.8	14.3	12.6
90°	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3	22.0	22.7	23.3
92.5°	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9	33.5	34.1	34.2
95°	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6	63.3	64.1	64.4
97.5°	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3	98.2	99.1	99.4
100°	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5	123.1	123.6	124.1
102.5°	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6	152.1	152.7	153.0
105°	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9	194.9	194.9	195.1
107.5°	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9	242.5	243.0	243.2
110°	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2	273.9	274.7	274.8



TEST NUMBER: P332193-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6	305.4	306.3	306.7
115°	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2	352.5	352.6	352.6
117.5°	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4	400.3	400.3	400.0
120°	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4	432.3	432.1	431.8
122.5°	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9	464.4	464.0	463.4
125°	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1	512.4	511.7	510.9
127.5°	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8	559.8	558.7	557.7
130°	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4	591.7	590.9	590.0
132.5°	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2	622.3	621.4	620.5
135°	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2	668.5	667.7	667.2
137.5°	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3	713.5	712.7	712.0
140°	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9	743.6	743.5	742.7
142.5°	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6	771.4	771.3	770.6
145°	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4	812.2	812.0	811.5
147.5°	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7	874.7	874.7	874.2
152.5°	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4	896.7	897.1	896.7
155°	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2	929.0	929.7	929.4
157.5°	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5	956.3	957.1	957.0
160°	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4	973.3	974.2	974.3
162.5°	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2	989.1	990.1	989.9
165°	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3	1009.3	1010.5	1010.4
167.5°	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8
170°	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0
172.5°	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4	1041.5	1042.7	1042.6
175°	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9	1049.0	1050.1	1050.0
177.5°	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2	1052.1	1053.0	1053.0
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332193-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1094.9	1094.5	1097.6	1095.4	1097.6	1094.5	1094.9	1098.0	1098.9	1099.4	1099.4
5°	1019.2	1020.8	1015.3	1015.3	1015.3	1020.8	1019.2	1022.5	1025.2	1027.5	1030.9
7.5°	951.7	949.3	949.5	946.5	949.5	949.3	951.7	954.4	957.9	962.8	967.4
10°	910.4	907.1	906.0	906.5	906.0	907.1	910.4	917.1	919.3	923.7	928.7
12.5°	876.3	875.6	868.3	868.4	868.3	875.6	876.3	878.0	882.9	892.3	898.1
15°	836.1	825.6	824.4	827.8	824.4	825.6	836.1	836.1	838.3	845.5	848.9
17.5°	795.8	790.3	790.6	789.0	790.6	790.3	795.8	796.7	798.5	804.4	808.8
20°	774.5	771.2	770.6	766.7	770.6	771.2	774.5	774.5	776.7	779.5	783.9
22.5°	755.0	753.9	754.2	749.9	754.2	753.9	755.0	756.3	758.6	760.4	763.5
25°	730.7	733.4	731.2	731.2	731.2	733.4	730.7	731.2	731.8	734.6	736.8
27.5°	714.3	714.1	713.1	713.1	713.1	714.1	714.3	712.9	712.2	711.3	710.8
30°	701.8	701.2	702.4	702.4	702.4	701.2	701.8	699.6	698.5	698.0	695.7
32.5°	689.4	690.2	690.4	690.8	690.4	690.2	689.4	686.7	684.8	683.3	681.5
35°	670.2	670.7	672.5	671.3	672.5	670.7	670.2	666.9	664.6	661.3	658.5
37.5°	644.2	646.8	646.2	647.1	646.2	646.8	644.2	643.3	641.0	638.5	635.3
40°	624.7	626.4	625.8	625.8	625.8	626.4	624.7	624.2	621.9	620.3	617.5
42.5°	604.7	605.9	604.5	603.6	604.5	605.9	604.7	603.7	602.4	599.4	596.2
45°	572.0	570.9	572.6	570.3	572.6	570.9	572.0	569.8	569.2	567.0	564.3
47.5°	535.4	536.5	537.0	538.6	537.0	536.5	535.4	535.6	532.5	531.2	530.3
50°	510.9	514.3	514.3	513.7	514.3	514.3	510.9	509.9	507.6	505.4	505.4
52.5°	487.0	488.5	490.8	490.6	490.8	488.5	487.0	485.0	482.8	479.7	478.8
55°	450.0	451.0	452.2	452.7	452.2	451.0	450.0	445.5	443.8	442.2	439.4
57.5°	411.6	411.1	413.8	414.6	413.8	411.1	411.6	407.6	405.0	399.9	399.3
60°	384.5	384.5	388.9	390.6	388.9	384.5	384.5	380.0	376.2	372.8	371.7
62.5°	355.6	357.4	361.8	359.5	361.8	357.4	355.6	350.7	347.7	343.6	340.6
65°	313.5	317.9	317.3	319.6	317.3	317.9	313.5	310.7	304.6	300.7	297.3
67.5°	269.4	272.1	276.1	276.5	276.1	272.1	269.4	265.0	261.0	256.9	252.9
70°	239.7	242.5	244.7	246.3	244.7	242.5	239.7	235.2	230.8	228.0	223.6
72.5°	210.8	212.3	217.6	215.2	217.6	212.3	210.8	205.5	201.9	199.6	194.8
75°	165.3	169.2	172.5	170.9	172.5	169.2	165.3	161.4	158.7	155.3	150.9
77.5°	122.3	126.1	127.7	126.3	127.7	126.1	122.3	119.8	118.3	111.8	111.3
80°	96.5	96.0	99.3	98.7	99.3	96.0	96.5	92.6	89.8	86.0	86.0
82.5°	70.8	70.3	71.8	72.2	71.8	70.3	70.8	68.6	65.1	63.3	62.0
85°	34.4	36.0	33.8	33.3	33.8	36.0	34.4	32.2	32.2	32.2	31.6
87.5°	12.7	12.8	12.4	12.1	12.4	12.8	12.7	12.6	14.3	12.8	12.7
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3
92.5°	34.0	33.8	33.6	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9
95°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6
97.5°	99.3	99.3	99.2	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3
100°	124.4	124.8	125.1	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5
102.5°	152.9	152.8	152.7	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6
105°	195.5	195.8	196.2	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9
107.5°	243.0	242.8	242.6	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9
110°	274.5	274.1	273.8	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	306.6	306.6	306.6	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6
115°	352.5	352.2	352.0	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2
117.5°	399.5	399.0	398.4	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4
120°	431.5	431.0	430.7	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4
122.5°	462.9	462.4	461.9	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9
125°	510.2	509.5	508.7	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1
127.5°	556.9	556.1	555.2	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8
130°	588.6	587.3	586.1	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4
132.5°	619.5	618.5	617.5	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2
135°	666.8	666.5	666.1	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2
137.5°	711.3	710.6	709.9	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3
140°	741.4	740.2	738.9	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9
142.5°	769.6	768.7	767.7	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6
145°	810.8	810.1	809.3	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4
147.5°	849.3	848.2	847.1	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9
150°	873.1	872.0	870.9	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7
152.5°	895.8	894.8	893.8	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4
155°	928.1	926.8	925.6	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2
157.5°	955.9	955.0	953.9	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5
160°	973.5	972.8	972.1	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4
162.5°	988.8	987.6	986.4	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2
165°	1009.1	1007.8	1006.5	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3
167.5°	1025.6	1024.5	1023.4	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5
170°	1034.7	1033.4	1032.1	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4
172.5°	1041.3	1040.0	1038.7	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4
175°	1048.7	1047.4	1046.2	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9
177.5°	1051.9	1050.9	1049.9	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332193-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1098.0	1098.0	1106.5	1111.8	1118.5	1122.9	1126.0	1129.1	1134.5	1141.6	1149.6
5°	1035.3	1037.5	1049.7	1061.9	1073.6	1083.5	1091.8	1101.9	1114.0	1129.0	1145.7
7.5°	974.4	983.0	995.3	1010.2	1026.5	1041.1	1055.8	1072.2	1089.4	1111.5	1134.8
10°	935.4	944.9	959.8	978.7	995.9	1013.1	1031.4	1049.1	1070.7	1096.8	1126.8
12.5°	901.2	910.2	925.6	946.2	962.6	981.5	1002.5	1025.6	1049.9	1081.3	1115.2
15°	853.9	864.4	883.2	893.2	918.2	940.9	960.3	993.7	1024.7	1056.9	1096.3
17.5°	815.0	820.9	836.2	854.8	873.3	898.9	924.3	952.0	983.0	1022.4	1071.6
20°	788.4	793.4	810.0	829.4	849.4	872.7	895.4	923.2	958.1	999.7	1053.0
22.5°	768.4	773.8	784.7	805.4	824.1	843.4	866.2	899.2	936.4	977.1	1034.9
25°	739.6	742.9	750.1	766.7	783.4	805.0	825.0	856.1	894.4	942.1	999.7
27.5°	712.2	715.3	721.4	733.4	748.9	766.4	788.1	814.6	853.4	905.2	966.5
30°	695.7	696.3	701.8	712.9	726.3	740.7	760.7	790.6	827.2	880.0	944.3
32.5°	681.5	679.4	683.2	691.6	704.5	718.9	735.3	764.8	800.1	852.0	918.1
35°	657.5	656.3	654.7	661.9	672.9	684.0	698.5	720.7	760.7	808.9	878.2
37.5°	632.9	630.2	627.3	630.6	639.3	650.8	663.3	683.1	717.5	770.6	837.0
40°	614.7	612.5	610.8	609.8	617.5	628.6	638.1	656.9	689.1	739.6	805.0
42.5°	594.8	593.5	591.3	589.8	596.2	604.6	614.5	631.1	663.3	710.7	772.7
45°	562.6	561.5	560.4	559.2	563.1	570.9	578.7	590.8	618.6	664.6	720.7
47.5°	526.8	525.3	525.7	524.0	527.7	533.0	538.3	551.5	578.1	615.3	656.2
50°	501.0	500.4	500.4	500.4	501.6	507.6	512.7	522.6	547.1	584.2	613.6
52.5°	476.5	474.3	474.3	475.2	477.1	481.0	484.2	495.1	516.4	546.9	573.6
55°	438.3	433.8	432.8	433.8	435.5	438.9	442.2	451.0	469.4	492.1	507.6
57.5°	395.9	393.5	392.0	392.2	393.1	395.8	398.4	408.0	422.4	434.3	444.3
60°	366.2	367.3	362.3	363.4	363.4	365.6	369.5	375.6	387.8	396.2	406.1
62.5°	338.2	336.6	335.3	333.6	333.6	334.5	339.7	344.5	355.0	359.3	367.0
65°	294.6	294.6	291.3	292.4	292.9	289.0	291.8	297.3	304.0	305.7	312.9
67.5°	250.5	248.9	247.0	245.3	245.3	245.0	246.5	249.2	254.2	254.8	260.3
70°	220.3	219.2	218.6	217.0	214.7	217.5	215.8	218.6	221.4	221.9	225.3
72.5°	190.9	189.9	188.8	187.2	186.3	186.0	186.1	189.3	191.2	190.4	194.2
75°	149.3	148.1	147.0	144.2	144.2	142.6	143.2	145.4	147.6	145.9	149.3
77.5°	109.7	106.2	106.0	106.7	104.8	105.2	104.5	104.2	105.2	105.3	108.3
80°	84.3	80.5	81.5	81.0	80.5	79.9	78.8	79.3	79.9	80.5	82.1
82.5°	60.8	60.5	59.4	59.3	58.7	57.2	56.6	57.6	58.1	57.8	59.0
85°	31.1	29.4	30.5	29.9	30.5	29.9	28.3	28.3	29.4	28.9	29.9
87.5°	13.5	13.3	12.4	12.3	11.4	11.4	10.5	10.6	10.7	10.3	10.8
90°	20.5	19.8	17.4	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8
92.5°	32.3	31.7	30.3	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0
95°	61.9	61.1	59.7	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8
97.5°	96.5	95.6	94.6	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6
100°	122.0	121.4	120.5	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3
102.5°	151.1	150.5	149.3	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1
105°	194.9	194.9	193.3	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9
107.5°	241.2	240.7	240.0	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8
110°	272.5	271.7	271.4	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5



TEST NUMBER: P332193-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.7	302.8	302.7	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5
115°	352.0	351.9	352.2	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1
117.5°	400.4	400.5	400.9	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0
120°	432.6	432.8	433.7	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0
122.5°	465.4	465.9	466.4	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4
125°	513.9	514.6	514.9	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8
127.5°	561.8	562.8	563.2	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4
130°	593.1	593.9	594.4	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8
132.5°	624.0	624.9	625.3	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1
135°	669.9	670.7	670.9	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6
137.5°	715.0	715.8	715.3	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6
140°	744.0	744.2	744.0	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2
142.5°	771.8	772.0	771.7	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4
145°	812.6	812.8	812.2	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6
147.5°	850.9	850.9	850.4	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6
150°	874.7	874.7	874.3	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4
152.5°	896.2	895.9	895.7	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6
155°	927.5	926.8	926.6	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9
157.5°	954.8	954.0	953.9	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4
160°	971.4	970.5	970.5	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2
162.5°	987.3	986.4	986.3	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1
165°	1007.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5
167.5°	1023.4	1022.2	1022.1	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9
170°	1032.1	1030.9	1030.9	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1
172.5°	1039.3	1038.1	1038.1	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4
175°	1046.8	1045.7	1045.7	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0
177.5°	1050.4	1049.5	1049.5	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1152.2	1154.5	1162.0	1167.3	1173.5	1177.0	1180.6	1183.3	1186.8	1187.7	1200.6
5°	1157.3	1168.4	1187.8	1202.2	1220.0	1239.4	1252.7	1258.8	1275.0	1288.3	1314.9
7.5°	1155.8	1179.5	1208.8	1239.2	1271.9	1302.0	1328.2	1359.3	1381.4	1414.5	1447.2
10°	1154.5	1186.2	1223.9	1262.7	1308.2	1350.4	1388.1	1430.3	1465.3	1511.3	1550.7
12.5°	1150.6	1188.9	1241.2	1287.1	1342.4	1400.5	1456.5	1510.6	1541.6	1618.3	1654.6
15°	1140.7	1186.2	1251.6	1321.5	1397.6	1466.3	1537.3	1594.0	1685.5	1752.6	1795.4
17.5°	1121.9	1185.5	1263.1	1347.5	1439.9	1530.6	1611.0	1697.0	1794.0	1875.3	1961.8
20°	1113.0	1182.8	1269.4	1362.6	1458.6	1561.2	1652.8	1756.0	1861.9	1941.8	2052.8
22.5°	1096.5	1175.7	1268.9	1372.8	1475.4	1581.6	1688.7	1792.8	1915.2	2025.3	2130.9
25°	1069.7	1158.5	1255.0	1370.9	1491.3	1597.8	1726.0	1864.2	1991.8	2133.2	2238.6
27.5°	1041.5	1136.2	1233.0	1340.8	1470.3	1596.8	1757.9	1914.1	2070.0	2192.3	2270.3
30°	1019.7	1111.8	1211.7	1320.5	1448.6	1599.0	1779.2	1949.5	2101.6	2206.4	2250.3
32.5°	996.2	1089.6	1177.9	1292.0	1428.6	1597.6	1792.6	1970.4	2103.4	2173.2	2164.6
35°	959.3	1037.5	1123.5	1233.3	1394.2	1587.9	1800.3	1972.3	2053.9	2038.9	1925.7
37.5°	906.0	971.8	1056.5	1176.7	1354.3	1567.3	1784.8	1913.8	1908.5	1786.6	1622.6
40°	872.7	928.7	1010.3	1136.8	1323.2	1554.0	1760.4	1844.2	1773.2	1602.8	1406.4
42.5°	829.2	880.8	962.4	1092.4	1289.1	1526.9	1713.8	1738.1	1599.1	1403.1	1223.1
45°	761.7	807.2	891.5	1025.8	1237.8	1468.0	1600.0	1540.7	1353.7	1151.2	1014.2
47.5°	689.3	736.5	817.7	955.6	1163.7	1379.3	1442.3	1316.0	1124.1	959.8	834.0
50°	643.6	689.1	768.4	907.7	1113.5	1306.6	1332.6	1169.5	993.1	848.9	745.7
52.5°	597.5	640.3	718.3	857.9	1054.9	1222.2	1206.2	1039.9	877.7	754.7	673.8
55°	528.7	569.2	643.6	774.5	953.7	1086.3	1028.1	869.4	735.2	639.7	578.1
57.5°	467.2	506.1	570.2	688.5	844.3	935.4	861.3	727.6	620.9	547.4	501.4
60°	425.5	459.9	521.0	630.8	766.2	835.5	762.3	644.2	554.2	495.5	454.4
62.5°	386.0	416.0	472.5	572.3	689.8	748.1	674.0	574.0	497.4	445.3	410.4
65°	326.2	353.4	403.3	481.0	577.6	616.4	552.6	471.6	412.2	373.4	350.1
67.5°	271.7	294.7	337.9	399.0	470.0	498.3	449.7	387.0	342.3	311.1	292.6
70°	235.2	255.2	289.0	341.8	406.1	427.8	382.3	330.7	297.9	273.0	255.8
72.5°	204.6	219.2	250.0	290.7	344.4	361.6	329.9	284.5	254.0	235.2	221.6
75°	155.9	168.1	188.1	220.8	258.0	268.0	244.1	215.8	195.3	182.0	171.5
77.5°	112.4	121.4	135.8	156.0	181.7	190.8	175.6	156.8	141.8	132.8	126.9
80°	84.9	92.1	104.3	120.9	136.5	141.5	132.6	118.1	107.6	102.6	97.7
82.5°	62.7	66.8	74.1	85.4	96.1	102.0	94.4	85.8	80.1	75.6	73.7
85°	31.6	33.8	37.2	41.6	48.3	50.5	47.7	45.5	42.2	39.4	39.4
87.5°	12.1	12.5	14.1	15.4	17.6	19.4	19.4	19.0	19.1	18.8	18.4
90°	2.7	4.5	6.4	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3
92.5°	21.2	22.5	23.7	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9
95°	50.0	51.3	52.6	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6
97.5°	87.5	88.5	89.4	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3
100°	113.4	114.5	115.6	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5
102.5°	142.8	143.4	144.1	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6
105°	186.2	186.6	186.9	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9
107.5°	236.9	237.2	237.4	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9
110°	268.8	269.2	269.5	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	301.7	301.9	302.1	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6
115°	351.6	352.1	352.7	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2
117.5°	401.3	401.7	402.0	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4
120°	433.1	434.2	435.3	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4
122.5°	465.2	466.0	466.8	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9
125°	514.3	514.9	515.4	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1
127.5°	560.5	561.7	562.9	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8
130°	591.3	592.7	594.2	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4
132.5°	621.6	623.1	624.6	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2
135°	667.6	668.8	669.8	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2
137.5°	710.5	711.3	712.2	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3
140°	740.2	741.1	742.0	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9
142.5°	767.3	768.2	769.1	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6
145°	809.0	809.3	809.8	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4
147.5°	846.3	846.9	847.7	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9
150°	871.8	872.1	872.5	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7
152.5°	893.1	893.6	894.1	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4
155°	925.9	925.9	925.9	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2
157.5°	954.1	953.9	953.7	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5
160°	971.8	971.4	971.1	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4
162.5°	987.6	987.0	986.5	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2
165°	1008.0	1007.5	1006.9	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3
167.5°	1024.2	1023.4	1022.7	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5
170°	1033.4	1032.7	1031.9	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4
172.5°	1040.6	1039.9	1039.2	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4
175°	1048.3	1047.6	1046.8	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9
177.5°	1051.6	1051.0	1050.4	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1205.0	1205.5	1210.4	1213.9	1212.1	1214.4	1215.2
5°	1316.5	1336.5	1347.0	1354.9	1355.4	1355.9	1360.4
7.5°	1474.6	1496.1	1511.7	1535.5	1542.5	1550.7	1548.3
10°	1590.1	1621.7	1648.9	1663.3	1678.9	1701.6	1683.3
12.5°	1697.9	1754.0	1795.4	1817.8	1832.4	1837.0	1828.0
15°	1875.8	1949.1	1988.4	1987.3	2037.3	2058.9	2025.0
17.5°	2038.9	2106.5	2160.6	2188.3	2230.0	2239.2	2235.0
20°	2138.8	2212.6	2254.7	2302.4	2324.1	2343.5	2346.8
22.5°	2224.9	2291.2	2336.4	2376.1	2394.2	2403.4	2409.0
25°	2313.5	2365.7	2392.9	2406.8	2411.7	2410.6	2403.4
27.5°	2307.5	2311.5	2281.5	2252.1	2225.8	2196.2	2185.9
30°	2247.5	2200.9	2117.7	2070.5	2001.2	1946.3	1968.5
32.5°	2089.9	1997.2	1903.7	1800.7	1715.3	1691.0	1666.6
35°	1783.7	1620.6	1525.2	1414.2	1369.8	1325.4	1294.9
37.5°	1443.1	1316.9	1203.7	1131.1	1086.6	1058.6	1043.5
40°	1247.7	1134.0	1040.8	982.0	948.2	916.6	912.1
42.5°	1091.9	986.2	916.1	869.3	836.7	823.3	813.6
45°	894.4	820.5	773.4	740.1	718.4	710.1	699.0
47.5°	757.0	704.8	669.4	646.8	630.5	624.3	623.4
50°	680.2	636.9	610.8	593.0	580.3	578.1	569.2
52.5°	622.5	585.0	564.7	549.2	540.0	533.7	531.1
55°	540.4	515.4	497.1	488.2	481.0	474.9	474.9
57.5°	472.8	451.9	439.9	432.3	430.1	425.7	423.0
60°	431.0	413.4	403.9	397.2	392.8	393.4	388.3
62.5°	390.3	378.7	369.7	363.1	357.8	357.8	358.2
65°	332.3	323.4	316.8	314.5	311.3	307.4	308.5
67.5°	281.6	273.3	268.1	264.3	263.2	261.1	264.3
70°	245.2	239.1	235.2	231.9	230.8	231.4	234.2
72.5°	211.9	207.6	205.0	203.5	201.1	201.1	203.1
75°	166.4	163.1	160.9	159.2	158.7	158.7	158.7
77.5°	122.3	121.5	120.5	118.1	118.1	118.9	119.0
80°	96.5	94.9	94.3	93.2	91.6	90.4	93.2
82.5°	72.2	70.4	69.9	69.7	67.1	66.9	69.2
85°	38.8	37.2	37.7	37.2	37.2	36.6	36.6
87.5°	18.2	17.9	17.5	18.0	17.7	17.3	18.3
90°	22.0	22.7	23.3	23.6	24.1	24.4	24.8
92.5°	33.5	34.1	34.2	34.0	33.8	33.6	33.3
95°	63.3	64.1	64.4	64.4	64.4	64.4	64.4
97.5°	98.2	99.1	99.4	99.3	99.3	99.2	99.1
100°	123.1	123.6	124.1	124.4	124.8	125.1	125.6
102.5°	152.1	152.7	153.0	152.9	152.8	152.7	152.6
105°	194.9	194.9	195.1	195.5	195.8	196.2	196.6
107.5°	242.5	243.0	243.2	243.0	242.8	242.6	242.3
110°	273.9	274.7	274.8	274.5	274.1	273.8	273.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	305.4	306.3	306.7	306.6	306.6	306.6	306.5
115°	352.5	352.6	352.6	352.5	352.2	352.0	351.9
117.5°	400.3	400.3	400.0	399.5	399.0	398.4	397.9
120°	432.3	432.1	431.8	431.5	431.0	430.7	430.3
122.5°	464.4	464.0	463.4	462.9	462.4	461.9	461.4
125°	512.4	511.7	510.9	510.2	509.5	508.7	508.0
127.5°	559.8	558.7	557.7	556.9	556.1	555.2	554.4
130°	591.7	590.9	590.0	588.6	587.3	586.1	584.8
132.5°	622.3	621.4	620.5	619.5	618.5	617.5	616.5
135°	668.5	667.7	667.2	666.8	666.5	666.1	665.8
137.5°	713.5	712.7	712.0	711.3	710.6	709.9	709.2
140°	743.6	743.5	742.7	741.4	740.2	738.9	737.6
142.5°	771.4	771.3	770.6	769.6	768.7	767.7	766.7
145°	812.2	812.0	811.5	810.8	810.1	809.3	808.6
147.5°	850.9	850.9	850.4	849.3	848.2	847.1	846.0
150°	874.7	874.7	874.2	873.1	872.0	870.9	869.8
152.5°	896.7	897.1	896.7	895.8	894.8	893.8	892.9
155°	929.0	929.7	929.4	928.1	926.8	925.6	924.3
157.5°	956.3	957.1	957.0	955.9	955.0	953.9	952.8
160°	973.3	974.2	974.3	973.5	972.8	972.1	971.3
162.5°	989.1	990.1	989.9	988.8	987.6	986.4	985.2
165°	1009.3	1010.5	1010.4	1009.1	1007.8	1006.5	1005.3
167.5°	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2
170°	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9
172.5°	1041.5	1042.7	1042.6	1041.3	1040.0	1038.7	1037.5
175°	1049.0	1050.1	1050.0	1048.7	1047.4	1046.2	1044.9
177.5°	1052.1	1053.0	1053.0	1051.9	1050.9	1049.9	1048.9
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5

(END OF REPORT)