

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: P332193-935

Luminaire Tested: **S123DIW-S1000D1030U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332193-935
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-S1000D1030U935-4F0-1E-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: 6729.8 lumens
Efficiency: N/A
Efficacy: 110.0 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

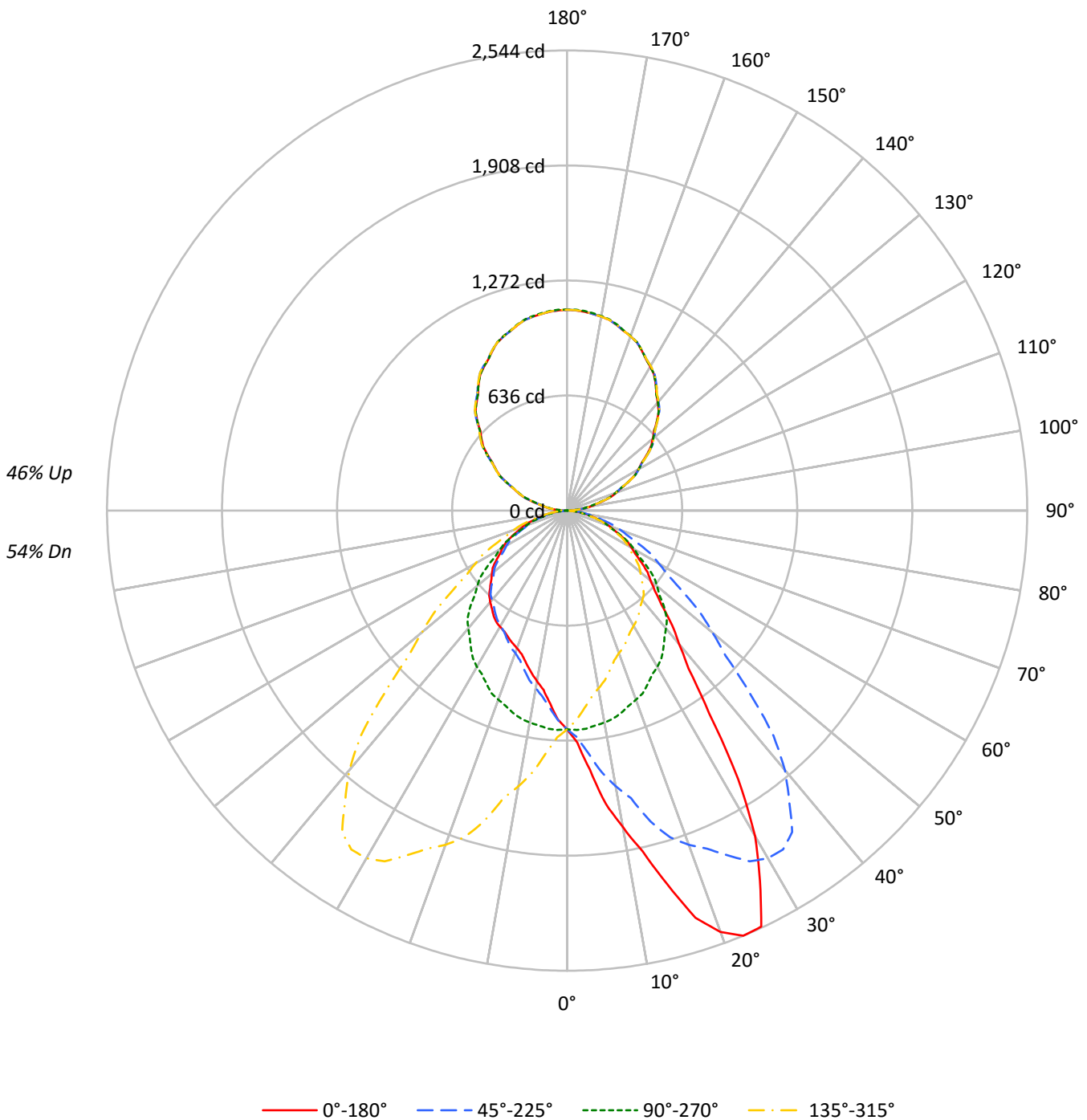
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.8
10°-20°	382.0	5.7
20°-30°	641.1	9.5
30°-40°	725.9	10.8
40°-50°	651.0	9.7
50°-60°	525.3	7.8
60°-70°	366.1	5.4
70°-80°	192.4	2.9
80°-90°	50.3	0.7
90°-100°	72.4	1.1
100°-110°	216.5	3.2
110°-120°	368.3	5.5
120°-130°	484.4	7.2
130°-140°	544.4	8.1
140°-150°	535.2	8.0
150°-160°	450.5	6.7
160°-170°	299.9	4.5
170°-180°	105.0	1.6
0°-30°	1142.2	17.0
0°-40°	1868.1	27.8
0°-60°	3044.4	45.2
0°-90°	3653.2	54.3
90°-120°	657.1	9.8
90°-150°	2221.1	33.0
90°-180°	3077.0	45.7
0°-180°	6729.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	46
90°	26	1	26	1	26	15
95°	68	52	68	52	68	70
105°	208	196	208	196	208	220
115°	372	371	372	371	372	368
125°	536	543	536	543	536	480
135°	703	704	703	704	703	541
145°	854	854	854	854	854	533
155°	976	978	976	978	976	449
165°	1062	1065	1062	1065	1062	299
175°	1104	1108	1104	1108	1104	105
180°	1110	1110	1110	1110	1110	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	19.3	18.3	18.7	19.0	18.5	18.9	19.2	19.5	19.8	20.1	20.1
90°	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5	21.7	20.9	18.4
92.5°	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7	34.1	33.5	32.0
95°	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1	65.3	64.6	63.0
97.5°	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8	101.9	101.0	99.9
100°	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4	128.8	128.2	127.3
102.5°	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1	159.5	158.9	157.6
105°	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9	205.9	205.9	204.1
107.5°	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5	254.8	254.2	253.5
110°	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5	287.7	287.0	286.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7	320.7	319.8	319.7
115°	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0	371.8	371.6	372.0
117.5°	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8	422.8	422.9	423.4
120°	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7	456.8	457.1	458.1
122.5°	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9	491.5	492.0	492.5
125°	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9	542.7	543.5	543.8
127.5°	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2	593.3	594.3	594.8
130°	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6	626.4	627.2	627.8
132.5°	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1	659.0	660.0	660.4
135°	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7	707.5	708.3	708.5
137.5°	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3	755.1	756.0	755.4
140°	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6	785.7	785.9	785.7
142.5°	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9	815.0	815.3	814.9
145°	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0	858.2	858.3	857.7
147.5°	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6	898.6	898.6	898.1
150°	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8	923.8	923.8	923.3
152.5°	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7	946.4	946.1	945.9
155°	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2	979.5	978.7	978.5
157.5°	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1	1008.3	1007.5	1007.4
160°	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9	1025.9	1024.9	1024.9
162.5°	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6	1042.7	1041.7	1041.6
165°	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8	1063.6	1062.5	1062.5
167.5°	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5	1079.4
170°	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6	1088.6
172.5°	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7	1097.5	1096.3	1096.3
175°	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6	1105.5	1104.3	1104.3
177.5°	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2	1109.2	1108.4	1108.4
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	20.5	20.5	18.6	16.3	14.9	13.2	12.7	11.5	10.8	11.3	11.2
90°	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9	2.8	4.7	6.7
92.5°	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1	22.4	23.8	25.1
95°	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5	52.8	54.2	55.5
97.5°	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4	92.4	93.4	94.5
100°	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6	119.8	121.0	122.1
102.5°	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1	150.8	151.4	152.1
105°	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3	196.7	197.1	197.4
107.5°	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0	250.2	250.5	250.7
110°	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5	283.9	284.3	284.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4	318.7	318.8	319.1
115°	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7	371.3	371.9	372.5
117.5°	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4	423.8	424.2	424.6
120°	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2	457.4	458.6	459.7
122.5°	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4	491.3	492.1	492.9
125°	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6	543.1	543.7	544.3
127.5°	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7	591.9	593.2	594.4
130°	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8	624.4	625.9	627.5
132.5°	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9	656.4	658.0	659.6
135°	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0	705.1	706.3	707.4
137.5°	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3	750.3	751.2	752.2
140°	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7	781.7	782.6	783.6
142.5°	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3	810.3	811.2	812.2
145°	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9	854.4	854.7	855.1
147.5°	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0	893.7	894.4	895.2
150°	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2	920.7	921.0	921.4
152.5°	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6	943.1	943.7	944.3
155°	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
157.5°	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9	1007.6	1007.4	1007.1
160°	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7	1026.3	1025.9	1025.5
162.5°	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4	1042.9	1042.3	1041.8
165°	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1	1064.5	1063.9	1063.3
167.5°	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4	1081.6	1080.8	1080.0
170°	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1	1091.3	1090.5	1089.8
172.5°	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8	1099.0	1098.2	1097.4
175°	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8	1107.1	1106.3	1105.5
177.5°	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1	1110.5	1109.9	1109.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332193-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	11.1	12.1	12.1	13.0	13.1	14.0	14.2	13.4	13.5	15.2	13.3
90°	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5	23.2	24.0	24.6
92.5°	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7	35.4	36.0	36.2
95°	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1	66.9	67.7	68.0
97.5°	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8	103.7	104.6	105.0
100°	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4	130.0	130.5	131.0
102.5°	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1	160.7	161.3	161.5
105°	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9	205.9	205.9	206.0
107.5°	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5	256.1	256.7	256.8
110°	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5	289.3	290.1	290.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7	322.5	323.5	323.9
115°	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0	372.2	372.4	372.4
117.5°	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8	422.8	422.8	422.4
120°	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7	456.5	456.3	456.0
122.5°	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9	490.4	490.0	489.4
125°	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9	541.1	540.4	539.6
127.5°	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2	591.2	590.0	589.0
130°	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6	624.8	624.1	623.0
132.5°	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1	657.2	656.3	655.3
135°	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7	705.9	705.2	704.6
137.5°	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3	753.5	752.7	751.9
140°	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6	785.3	785.1	784.4
142.5°	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9	814.7	814.5	813.8
145°	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0	857.7	857.6	857.0
147.5°	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6	898.6	898.6	898.0
150°	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8	923.8	923.8	923.2
152.5°	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7	947.0	947.4	947.0
155°	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2	981.0	981.8	981.5
157.5°	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1	1010.0	1010.7	1010.6
160°	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9	1027.9	1028.8	1028.9
162.5°	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6	1044.6	1045.6	1045.4
165°	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8	1065.9	1067.1	1067.0
167.5°	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3
170°	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1
172.5°	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7	1099.9	1101.1	1101.0
175°	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6	1107.8	1109.0	1108.9
177.5°	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2	1111.1	1112.1	1112.0
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332193-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	13.4	13.5	13.1	12.7	13.1	13.5	13.4	13.3	15.2	13.5	13.4
90°	25.0	25.4	25.7	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5
92.5°	35.9	35.7	35.5	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7
95°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1
97.5°	104.9	104.9	104.8	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8
100°	131.4	131.8	132.2	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4
102.5°	161.4	161.4	161.3	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1
105°	206.5	206.8	207.2	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9
107.5°	256.7	256.4	256.1	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5
110°	289.9	289.5	289.1	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5



TEST NUMBER: P332193-935

CATALOG NUMBER: S123DIW-S1000D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	323.8	323.7	323.7	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7
115°	372.2	372.0	371.8	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0
117.5°	421.9	421.4	420.8	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8
120°	455.6	455.2	454.9	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7
122.5°	488.9	488.4	487.8	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9
125°	538.8	538.0	537.3	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9
127.5°	588.1	587.3	586.3	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2
130°	621.6	620.3	619.0	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6
132.5°	654.2	653.2	652.1	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1
135°	704.2	703.9	703.4	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7
137.5°	751.1	750.4	749.7	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3
140°	783.0	781.7	780.3	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6
142.5°	812.8	811.8	810.7	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9
145°	856.3	855.5	854.7	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0
147.5°	896.9	895.7	894.6	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6
150°	922.0	920.8	919.7	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8
152.5°	946.0	944.9	943.9	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7
155°	980.2	978.8	977.5	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2
157.5°	1009.5	1008.5	1007.4	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1
160°	1028.1	1027.3	1026.6	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9
162.5°	1044.2	1042.9	1041.7	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6
165°	1065.7	1064.3	1062.9	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8
167.5°	1083.1	1081.9	1080.7	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9
170°	1092.7	1091.3	1089.9	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3
172.5°	1099.7	1098.3	1096.9	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7
175°	1107.5	1106.1	1104.8	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6
177.5°	1110.9	1109.8	1108.7	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332193-935

CATALOG NUMBER: S123DIW-S1000D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	14.2	14.0	13.1	13.0	12.1	12.1	11.1	11.2	11.3	10.8	11.5
90°	21.7	20.9	18.4	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9
92.5°	34.1	33.5	32.0	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1
95°	65.3	64.6	63.0	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5
97.5°	101.9	101.0	99.9	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4
100°	128.8	128.2	127.3	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6
102.5°	159.5	158.9	157.6	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1
105°	205.9	205.9	204.1	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3
107.5°	254.8	254.2	253.5	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0
110°	287.7	287.0	286.6	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5



TEST NUMBER: P332193-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.7	319.8	319.7	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4
115°	371.8	371.6	372.0	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7
117.5°	422.8	422.9	423.4	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4
120°	456.8	457.1	458.1	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2
122.5°	491.5	492.0	492.5	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4
125°	542.7	543.5	543.8	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6
127.5°	593.3	594.3	594.8	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7
130°	626.4	627.2	627.8	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8
132.5°	659.0	660.0	660.4	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9
135°	707.5	708.3	708.5	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0
137.5°	755.1	756.0	755.4	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3
140°	785.7	785.9	785.7	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7
142.5°	815.0	815.3	814.9	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3
145°	858.2	858.3	857.7	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9
147.5°	898.6	898.6	898.1	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0
150°	923.8	923.8	923.3	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2
152.5°	946.4	946.1	945.9	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6
155°	979.5	978.7	978.5	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8
157.5°	1008.3	1007.5	1007.4	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9
160°	1025.9	1024.9	1024.9	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7
162.5°	1042.7	1041.7	1041.6	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4
165°	1063.6	1062.5	1062.5	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1
167.5°	1080.7	1079.5	1079.4	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4
170°	1089.9	1088.6	1088.6	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1
172.5°	1097.5	1096.3	1096.3	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8
175°	1105.5	1104.3	1104.3	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8
177.5°	1109.2	1108.4	1108.4	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	12.7	13.2	14.9	16.3	18.6	20.5	20.5	20.1	20.1	19.8	19.5
90°	2.8	4.7	6.7	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5
92.5°	22.4	23.8	25.1	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7
95°	52.8	54.2	55.5	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1
97.5°	92.4	93.4	94.5	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8
100°	119.8	121.0	122.1	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4
102.5°	150.8	151.4	152.1	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1
105°	196.7	197.1	197.4	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9
107.5°	250.2	250.5	250.7	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5
110°	283.9	284.3	284.6	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.7	318.8	319.1	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7
115°	371.3	371.9	372.5	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0
117.5°	423.8	424.2	424.6	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8
120°	457.4	458.6	459.7	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7
122.5°	491.3	492.1	492.9	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9
125°	543.1	543.7	544.3	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9
127.5°	591.9	593.2	594.4	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2
130°	624.4	625.9	627.5	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6
132.5°	656.4	658.0	659.6	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1
135°	705.1	706.3	707.4	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7
137.5°	750.3	751.2	752.2	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3
140°	781.7	782.6	783.6	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6
142.5°	810.3	811.2	812.2	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9
145°	854.4	854.7	855.1	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0
147.5°	893.7	894.4	895.2	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6
150°	920.7	921.0	921.4	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8
152.5°	943.1	943.7	944.3	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7
155°	977.8	977.8	977.8	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2
157.5°	1007.6	1007.4	1007.1	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1
160°	1026.3	1025.9	1025.5	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9
162.5°	1042.9	1042.3	1041.8	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6
165°	1064.5	1063.9	1063.3	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8
167.5°	1081.6	1080.8	1080.0	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9
170°	1091.3	1090.5	1089.8	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3
172.5°	1099.0	1098.2	1097.4	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7
175°	1107.1	1106.3	1105.5	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6
177.5°	1110.5	1109.9	1109.2	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	19.2	18.9	18.5	19.0	18.7	18.3	19.3
90°	23.2	24.0	24.6	25.0	25.4	25.7	26.2
92.5°	35.4	36.0	36.2	35.9	35.7	35.5	35.2
95°	66.9	67.7	68.0	68.0	68.0	68.0	68.0
97.5°	103.7	104.6	105.0	104.9	104.9	104.8	104.7
100°	130.0	130.5	131.0	131.4	131.8	132.2	132.6
102.5°	160.7	161.3	161.5	161.4	161.4	161.3	161.2
105°	205.9	205.9	206.0	206.5	206.8	207.2	207.6
107.5°	256.1	256.7	256.8	256.7	256.4	256.1	255.9
110°	289.3	290.1	290.2	289.9	289.5	289.1	288.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	322.5	323.5	323.9	323.8	323.7	323.7	323.6
115°	372.2	372.4	372.4	372.2	372.0	371.8	371.6
117.5°	422.8	422.8	422.4	421.9	421.4	420.8	420.3
120°	456.5	456.3	456.0	455.6	455.2	454.9	454.4
122.5°	490.4	490.0	489.4	488.9	488.4	487.8	487.2
125°	541.1	540.4	539.6	538.8	538.0	537.3	536.5
127.5°	591.2	590.0	589.0	588.1	587.3	586.3	585.5
130°	624.8	624.1	623.0	621.6	620.3	619.0	617.6
132.5°	657.2	656.3	655.3	654.2	653.2	652.1	651.1
135°	705.9	705.2	704.6	704.2	703.9	703.4	703.1
137.5°	753.5	752.7	751.9	751.1	750.4	749.7	749.0
140°	785.3	785.1	784.4	783.0	781.7	780.3	778.9
142.5°	814.7	814.5	813.8	812.8	811.8	810.7	809.7
145°	857.7	857.6	857.0	856.3	855.5	854.7	853.9
147.5°	898.6	898.6	898.0	896.9	895.7	894.6	893.4
150°	923.8	923.8	923.2	922.0	920.8	919.7	918.5
152.5°	947.0	947.4	947.0	946.0	944.9	943.9	943.0
155°	981.0	981.8	981.5	980.2	978.8	977.5	976.1
157.5°	1010.0	1010.7	1010.6	1009.5	1008.5	1007.4	1006.3
160°	1027.9	1028.8	1028.9	1028.1	1027.3	1026.6	1025.8
162.5°	1044.6	1045.6	1045.4	1044.2	1042.9	1041.7	1040.4
165°	1065.9	1067.1	1067.0	1065.7	1064.3	1062.9	1061.6
167.5°	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5
170°	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6
172.5°	1099.9	1101.1	1101.0	1099.7	1098.3	1096.9	1095.6
175°	1107.8	1109.0	1108.9	1107.5	1106.1	1104.8	1103.5
177.5°	1111.1	1112.1	1112.0	1110.9	1109.8	1108.7	1107.7
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4

(END OF REPORT)