

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: P332168-930

Luminaire Tested: **S123DIW-S775D1320U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332168-930
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: S123DIW-S775D1320U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6966.0 lumens
Efficiency: N/A
Efficacy: 113.5 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: Semi-Indirect

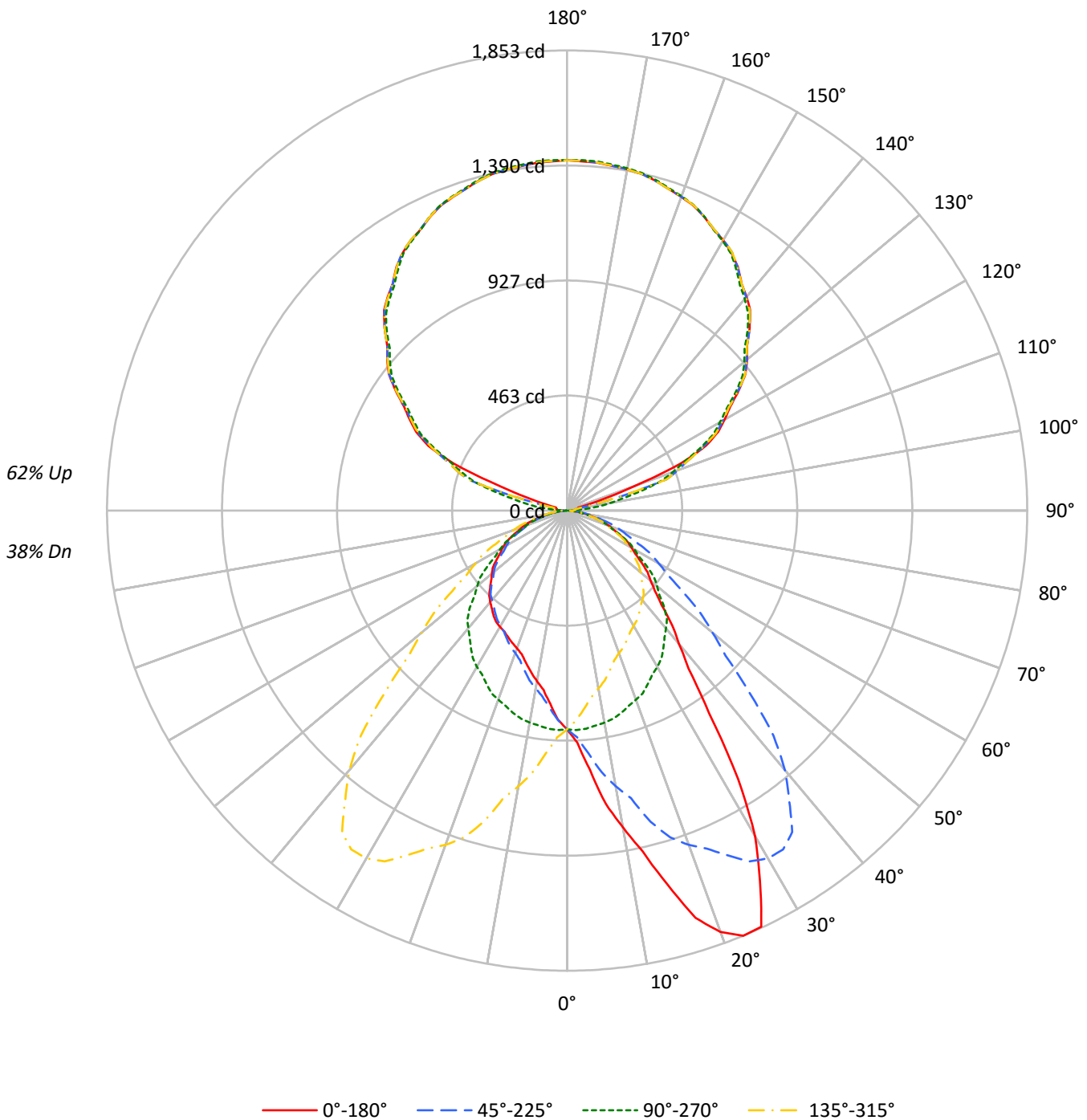
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9482	9482	9482	9482
5°	11309	9524	8440	9524
10°	14154	9475	7623	9475
15°	17361	9399	7096	9399
20°	20681	9279	6757	9279
25°	21960	9136	6682	9136
30°	18821	9028	6717	9028
35°	13090	8878	6787	8878
40°	9860	8702	6764	8702
45°	8187	8441	6680	8441
50°	7333	7906	6620	7906
55°	6855	7328	6536	7328
60°	6433	6725	6469	6725
65°	6044	6133	6260	6133
70°	5668	5454	5964	5454
75°	5078	4774	5465	4774
80°	4444	3918	4711	3918
85°	3483	2853	3162	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.2
10°-20°	278.3	4.0
20°-30°	467.0	6.7
30°-40°	528.8	7.6
40°-50°	474.2	6.8
50°-60°	382.7	5.5
60°-70°	266.7	3.8
70°-80°	140.2	2.0
80°-90°	38.2	0.5
90°-100°	51.3	0.7
100°-110°	244.5	3.5
110°-120°	587.3	8.4
120°-130°	747.9	10.7
130°-140°	799.1	11.5
140°-150°	747.2	10.7
150°-160°	602.7	8.7
160°-170°	389.0	5.6
170°-180°	134.1	1.9
0°-30°	832.1	11.9
0°-40°	1360.9	19.5
0°-60°	2217.8	31.8
0°-90°	2662.9	38.2
90°-120°	883.1	12.7
90°-150°	3177.3	45.6
90°-180°	4303.0	61.8
0°-180°	6966.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	881	881	881	881	881	
5°	1047	881	781	881	1047	108
15°	1558	843	637	843	1558	450
25°	1849	769	563	769	1849	811
35°	996	676	516	676	996	647
45°	538	554	439	554	538	426
55°	365	390	348	390	365	328
65°	237	241	246	241	237	236
75°	122	115	131	115	122	131
85°	28	23	26	23	28	34
90°	32	1	32	1	32	16
95°	40	64	40	64	40	33
105°	46	312	46	312	46	105
115°	616	586	616	586	616	570
125°	843	826	843	826	843	753
135°	1039	1028	1039	1028	1039	801
145°	1198	1187	1198	1187	1198	748
155°	1305	1307	1305	1307	1305	602
165°	1375	1379	1375	1379	1375	388
175°	1406	1411	1406	1411	1406	134
180°	1411	1411	1411	1411	1411	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	934.9	934.3	932.5	933.9	931.2	927.4	927.1	923.7	913.7	913.1	910.4
5°	1046.6	1043.2	1042.8	1042.3	1036.3	1028.3	1012.8	1011.5	991.1	980.8	968.5
7.5°	1191.2	1192.9	1186.7	1181.3	1163.0	1151.0	1134.5	1113.4	1088.3	1062.7	1045.7
10°	1295.0	1309.0	1291.6	1279.6	1268.5	1247.6	1223.3	1192.9	1162.7	1127.2	1100.3
12.5°	1406.3	1413.2	1409.7	1398.5	1381.2	1349.4	1306.3	1272.8	1245.0	1185.9	1162.1
15°	1557.9	1584.0	1567.3	1528.8	1529.7	1499.4	1443.1	1381.2	1348.3	1296.7	1226.3
17.5°	1719.4	1722.6	1715.6	1683.6	1662.2	1620.6	1568.6	1509.3	1442.7	1380.1	1305.5
20°	1805.5	1802.9	1788.0	1771.3	1734.6	1702.2	1645.4	1579.2	1493.9	1432.4	1350.9
22.5°	1853.3	1849.0	1841.9	1828.0	1797.4	1762.6	1711.6	1639.3	1558.1	1473.4	1379.2
25°	1849.0	1854.6	1855.4	1851.5	1840.9	1820.0	1779.9	1722.2	1641.1	1532.3	1434.1
27.5°	1681.7	1689.5	1712.4	1732.6	1755.2	1778.2	1775.2	1746.5	1686.5	1592.6	1472.5
30°	1514.3	1497.3	1539.5	1592.9	1629.2	1693.2	1729.1	1731.2	1697.5	1616.8	1499.8
32.5°	1282.1	1301.0	1319.6	1385.3	1464.6	1536.5	1607.9	1665.3	1671.9	1618.2	1515.9
35°	996.2	1019.7	1053.9	1087.9	1173.4	1246.8	1372.2	1481.5	1568.6	1580.1	1517.4
37.5°	802.7	814.4	836.0	870.2	926.0	1013.1	1110.2	1248.3	1374.4	1468.3	1472.3
40°	701.7	705.2	729.4	755.5	800.7	872.5	959.9	1082.0	1233.1	1364.2	1418.8
42.5°	625.9	633.4	643.8	668.7	704.7	758.7	840.1	940.9	1079.5	1230.3	1337.2
45°	537.8	546.3	552.8	569.4	595.0	631.3	688.0	780.2	885.7	1041.5	1185.3
47.5°	479.6	480.3	485.0	497.6	515.0	542.3	582.4	641.6	738.4	864.7	1012.4
50°	437.9	444.7	446.5	456.2	469.9	490.0	523.3	573.6	653.1	764.0	899.8
52.5°	408.5	410.6	415.4	422.5	434.4	450.0	478.9	518.4	580.7	675.2	800.1
55°	365.3	365.3	370.1	375.6	382.5	396.5	415.7	444.7	492.1	565.6	668.9
57.5°	325.4	327.5	330.8	332.6	338.3	347.7	363.7	385.8	421.1	477.6	559.7
60°	298.8	302.6	302.2	305.6	310.7	318.0	331.7	349.6	381.2	426.4	495.5
62.5°	275.6	275.3	275.2	279.3	284.5	291.4	300.2	315.8	342.6	382.7	441.6
65°	237.3	236.4	239.5	242.0	243.7	248.8	255.7	269.3	287.2	317.2	362.8
67.5°	203.3	200.9	202.5	203.3	206.3	210.3	216.6	225.1	239.4	263.3	297.7
70°	180.1	178.0	177.6	178.4	181.0	183.9	188.7	196.7	210.0	229.2	254.4
72.5°	156.2	154.7	154.7	156.5	157.8	159.7	163.1	170.5	181.0	195.4	218.9
75°	122.1	122.1	122.1	122.5	123.8	125.5	128.1	131.9	140.0	150.3	166.0
77.5°	91.5	91.4	90.9	90.8	92.7	93.5	94.1	97.7	102.2	109.1	120.6
80°	71.7	69.5	70.4	71.7	72.6	73.0	74.3	75.1	79.0	82.8	90.9
82.5°	53.2	51.4	51.6	53.6	53.8	54.2	55.5	56.7	58.1	61.6	66.0
85°	28.2	28.2	28.6	28.6	29.0	28.6	29.8	30.3	30.3	32.4	35.0
87.5°	16.6	15.7	16.0	16.2	15.8	16.1	16.1	16.3	16.5	16.6	16.4
90°	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0	26.1	25.2	22.1
92.5°	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8	28.3	26.8	24.5
95°	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8	34.2	32.5	29.9
97.5°	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5	35.6	33.8	30.5
100°	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3	36.4	34.6	30.9
102.5°	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4	63.2	69.0	108.7
105°	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1	188.3	229.6	250.5
107.5°	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4	390.5	420.8	417.5
110°	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4	465.1	472.8	470.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9	525.8	525.6	523.1
115°	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4	604.1	601.8	599.7
117.5°	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3	677.4	675.6	674.5
120°	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1	725.2	723.3	722.7
122.5°	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8	772.5	771.2	770.3
125°	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6	839.1	838.7	837.7
127.5°	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6	904.8	904.1	902.9
130°	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3	944.4	943.5	942.6
132.5°	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1	982.2	981.2	980.5
135°	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9	1038.0
137.5°	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3	1090.1	1089.0	1088.5
140°	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6	1122.7	1121.7	1121.0
142.5°	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2	1153.5	1152.8	1152.0
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1	1196.6	1196.1	1195.7
147.5°	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4	1235.0	1234.5	1234.0
150°	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9	1258.5	1258.0	1257.5
152.5°	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8	1279.0	1278.1	1277.8
155°	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6	1307.4	1306.2	1306.0
157.5°	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6	1332.1	1330.7	1331.0
160°	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8	1346.4	1345.0	1345.2
162.5°	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7	1359.2	1357.6	1357.8
165°	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1	1376.2	1374.4	1374.6
167.5°	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8	1387.8
170°	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3	1395.3
172.5°	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1	1402.2	1400.4	1400.2
175°	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1	1408.5	1406.9	1406.6
177.5°	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3	1410.9	1409.4	1409.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	908.2	905.6	902.8	898.1	894.0	888.1	886.4	884.4	878.2	872.8	868.7
5°	963.8	953.5	938.6	925.0	913.9	898.9	890.4	881.4	868.6	857.0	847.7
7.5°	1021.8	1001.7	978.4	953.3	929.9	907.4	889.2	873.0	855.1	838.1	824.9
10°	1067.9	1038.9	1006.5	971.4	941.6	912.6	888.2	866.9	843.8	823.8	807.1
12.5°	1120.5	1077.5	1032.7	990.3	954.9	914.6	885.2	858.0	831.8	807.7	789.0
15°	1182.8	1128.1	1075.1	1016.7	963.0	912.6	877.6	843.4	813.1	788.3	764.4
17.5°	1239.4	1177.5	1107.7	1036.7	971.8	912.1	863.1	824.4	786.5	756.3	732.5
20°	1271.5	1201.1	1122.1	1048.3	976.6	910.0	856.2	810.1	769.2	737.1	710.2
22.5°	1299.2	1216.8	1135.1	1056.1	976.2	904.5	843.6	796.1	751.7	720.4	691.8
25°	1327.9	1229.2	1147.3	1054.7	965.5	891.2	822.9	769.2	724.7	688.0	658.6
27.5°	1352.4	1228.4	1131.1	1031.5	948.6	874.2	801.2	743.6	696.4	656.6	626.6
30°	1368.8	1230.1	1114.4	1015.9	932.2	855.3	784.5	726.4	676.9	636.4	608.2
32.5°	1379.1	1229.1	1099.1	994.0	906.2	838.3	766.4	706.3	655.4	615.6	588.4
35°	1385.0	1221.6	1072.6	948.8	864.3	798.2	738.0	675.6	622.3	585.1	554.5
37.5°	1373.1	1205.7	1041.9	905.3	812.8	747.6	697.0	643.9	592.9	552.0	525.5
40°	1354.3	1195.6	1018.0	874.6	777.2	714.5	671.4	619.3	568.9	530.1	505.3
42.5°	1318.4	1174.7	991.6	840.4	740.4	677.6	638.0	594.4	546.7	510.3	485.6
45°	1230.9	1129.4	952.3	789.2	685.9	621.0	586.0	554.5	511.4	475.9	454.5
47.5°	1109.5	1061.2	895.2	735.2	629.1	566.6	530.3	504.8	473.4	444.7	424.3
50°	1025.2	1005.2	856.6	698.3	591.2	530.1	495.1	472.1	449.5	420.9	402.1
52.5°	927.9	940.3	811.5	660.1	552.5	492.5	459.6	441.3	420.8	397.3	380.9
55°	790.9	835.7	733.7	595.8	495.1	437.9	406.8	390.5	378.6	361.1	347.0
57.5°	662.6	719.7	649.5	529.7	438.7	389.4	359.5	341.8	334.1	325.0	313.9
60°	586.4	642.8	589.5	485.3	400.8	353.8	327.3	312.4	304.8	298.3	288.9
62.5°	518.5	575.5	530.7	440.3	363.5	320.0	297.0	282.4	276.4	273.0	265.1
65°	425.1	474.2	444.3	370.1	310.3	271.9	250.9	240.8	235.2	233.9	228.8
67.5°	346.0	383.4	361.6	307.0	259.9	226.7	209.0	200.2	196.0	195.6	191.8
70°	294.1	329.1	312.4	262.9	222.4	196.3	181.0	173.3	170.7	170.3	168.2
72.5°	253.8	278.2	265.0	223.6	192.3	168.7	157.4	149.4	146.5	147.1	145.6
75°	187.8	206.2	198.4	169.9	144.7	129.3	119.9	114.8	112.3	113.6	111.9
77.5°	135.1	146.8	139.8	120.0	104.5	93.4	86.5	83.3	81.0	81.0	80.1
80°	102.0	108.8	105.0	93.0	80.2	70.8	65.3	63.2	61.9	61.5	61.1
82.5°	72.6	78.4	73.9	65.7	57.0	51.4	48.3	45.4	44.5	44.8	44.3
85°	36.7	38.8	37.1	32.0	28.6	26.0	24.3	23.1	22.2	22.6	21.8
87.5°	16.5	16.2	14.6	12.6	11.5	10.0	9.5	8.4	8.2	8.6	8.8
90°	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1	3.3	5.7	8.1
92.5°	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5	18.8	18.2	17.5
95°	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9	54.4	44.8	35.3
97.5°	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5	124.3	119.9	115.7
100°	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2	181.8	186.5	191.1
102.5°	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5	235.9	239.2	242.6
105°	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4	315.0	317.6	320.1
107.5°	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7	398.8	400.8	402.8
110°	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9	454.8	456.6	458.4



TEST NUMBER: P332168-930

CATALOG NUMBER: S123DIW-S775D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5	508.3	509.9	511.6
115°	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0	587.4	588.8	590.2
117.5°	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0	664.7	666.4	668.1
120°	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8	712.9	714.9	717.1
122.5°	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5	761.2	762.9	764.6
125°	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1	827.9	829.8	831.7
127.5°	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6	892.5	894.4	896.3
130°	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9	932.8	934.7	936.5
132.5°	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5	971.3	973.2	975.1
135°	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4	1029.8	1031.2	1032.6
137.5°	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7	1080.5	1082.3	1084.0
140°	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3	1113.7	1115.1	1116.5
142.5°	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3	1144.7	1146.1	1147.5
145°	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7	1188.4	1190.0	1191.6
147.5°	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6	1228.7	1229.7	1230.8
150°	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8	1253.4	1254.2	1254.8
152.5°	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4	1275.7	1276.0	1276.4
155°	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3	1306.8	1306.4	1305.9
157.5°	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0	1332.0	1332.0	1331.9
160°	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1	1346.9	1346.6	1346.4
162.5°	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4	1360.7	1360.2	1359.5
165°	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6	1377.9	1377.1	1376.5
167.5°	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0	1391.1	1390.1	1389.2
170°	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5	1398.6	1397.7	1396.8
172.5°	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6	1403.5	1402.3	1401.2
175°	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0	1409.9	1408.8	1407.5
177.5°	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8	1411.8	1410.9	1410.0
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332168-930

CATALOG NUMBER: S123DIW-S775D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	866.3	863.9	860.5	855.3	851.3	844.7	844.7	845.8	845.8	845.5	844.7
5°	840.0	833.6	825.9	816.9	807.6	798.2	796.5	793.0	790.5	788.8	786.6
7.5°	812.3	800.9	789.7	777.1	765.7	756.3	749.7	744.2	740.7	736.9	734.3
10°	793.4	779.3	766.1	752.9	738.4	726.9	719.7	714.5	710.7	707.3	705.6
12.5°	771.3	755.1	740.5	728.0	712.1	700.3	693.3	691.0	686.4	679.2	675.5
15°	738.8	723.9	706.4	687.2	679.5	665.0	656.9	653.1	650.4	644.9	643.2
17.5°	711.1	691.5	671.9	657.5	643.3	631.5	627.0	622.2	618.8	614.2	612.9
20°	688.9	671.4	653.5	638.1	623.1	610.3	606.5	603.1	599.7	597.5	595.8
22.5°	666.3	648.9	634.0	619.6	603.7	595.3	591.2	587.4	585.0	583.6	581.9
25°	634.7	619.3	602.7	589.9	577.1	571.5	568.9	566.8	565.1	563.0	562.6
27.5°	606.3	589.6	576.1	564.2	555.0	550.3	547.9	546.8	547.2	548.0	548.5
30°	585.1	569.8	558.7	548.5	540.0	535.7	535.2	535.2	537.0	537.4	538.3
32.5°	565.7	553.1	542.0	532.1	525.6	522.7	524.3	524.3	525.7	526.8	528.3
35°	537.4	526.3	517.7	509.2	503.7	504.9	505.8	506.6	508.7	511.4	513.1
37.5°	510.3	500.7	491.8	485.1	482.6	484.9	486.9	488.7	491.2	493.2	494.9
40°	490.8	483.6	475.1	469.0	469.9	471.2	473.0	475.1	477.2	478.5	480.2
42.5°	472.7	465.1	458.7	453.7	454.9	456.6	457.5	458.7	461.1	463.4	464.5
45°	445.2	439.2	433.3	430.2	431.1	431.9	432.8	434.1	436.2	437.9	438.4
47.5°	414.2	410.0	406.0	403.1	404.5	404.1	405.2	408.0	408.6	409.7	412.1
50°	394.4	390.5	385.9	385.0	385.0	385.0	385.4	388.8	388.8	390.5	392.2
52.5°	372.5	370.1	367.0	365.5	364.8	364.8	366.6	368.4	369.0	371.5	373.2
55°	340.1	337.6	335.1	333.8	332.9	333.8	337.2	338.0	340.1	341.4	342.8
57.5°	306.5	304.5	302.5	301.7	301.6	302.7	304.6	307.1	307.7	311.6	313.6
60°	284.3	281.3	279.6	279.6	278.8	282.6	281.7	286.0	286.8	289.3	292.4
62.5°	261.4	257.4	256.7	256.7	257.9	259.0	260.2	262.0	264.3	267.5	269.9
65°	224.5	222.4	225.3	224.9	224.0	226.7	226.7	228.8	231.3	234.3	239.0
67.5°	189.6	188.5	188.7	188.7	190.0	191.5	192.7	194.5	197.6	200.8	203.8
70°	166.0	167.3	165.2	166.9	168.2	168.6	169.4	172.0	175.5	177.6	181.0
72.5°	143.2	143.1	143.3	144.0	145.3	146.0	146.9	149.9	153.6	155.4	158.1
75°	110.1	109.7	111.0	111.0	113.1	114.0	114.8	116.1	119.5	122.1	124.2
77.5°	80.4	81.0	80.6	82.1	81.5	81.7	84.3	85.6	85.9	91.0	92.1
80°	60.6	61.5	61.9	62.3	62.8	61.9	64.9	66.1	66.1	69.1	71.3
82.5°	43.5	44.0	45.2	45.6	45.7	46.6	46.8	47.7	48.8	50.1	52.8
85°	21.8	23.1	23.5	23.1	23.5	22.6	23.9	24.3	24.8	24.8	24.8
87.5°	8.9	9.8	10.0	11.0	11.3	12.2	12.4	11.9	12.1	13.3	12.1
90°	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0	28.0	28.9	29.6
92.5°	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8	31.3	32.8	33.7
95°	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8	37.4	39.1	39.9
97.5°	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5	39.4	41.2	42.2
100°	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3	40.2	42.1	43.1
102.5°	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4	51.6	45.9	43.2
105°	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1	105.9	64.7	44.3
107.5°	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4	330.1	299.9	269.2
110°	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4	449.7	442.1	421.5



TEST NUMBER: P332168-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9	526.0	526.2	522.8
115°	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4	608.7	611.1	612.7
117.5°	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3	681.1	683.0	684.0
120°	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1	729.0	730.8	731.7
122.5°	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8	775.1	776.4	777.1
125°	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6	840.1	840.5	841.0
127.5°	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6	906.3	907.1	907.2
130°	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3	946.3	947.2	947.5
132.5°	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1	984.1	985.0	985.1
135°	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7
137.5°	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3	1092.3	1093.5	1093.8
140°	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6	1124.5	1125.4	1125.7
142.5°	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2	1155.0	1155.8	1155.8
145°	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1	1197.5	1198.0	1198.2
147.5°	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4	1235.9	1236.4	1236.1
150°	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9	1259.4	1259.9	1259.7
152.5°	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8	1280.7	1281.5	1281.4
155°	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6	1309.7	1310.9	1310.8
157.5°	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6	1335.0	1336.4	1336.1
160°	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8	1349.2	1350.6	1350.5
162.5°	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7	1362.4	1363.9	1364.0
165°	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1	1380.0	1381.9	1381.9
167.5°	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2
170°	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8
172.5°	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1	1406.0	1407.9	1407.7
175°	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1	1411.8	1413.4	1413.2
177.5°	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3	1413.9	1415.4	1415.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332168-930

CATALOG NUMBER: S123DIW-S775D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	842.4	842.0	844.4	842.7	844.4	842.0	842.4	844.7	845.5	845.8	845.8
5°	784.1	785.4	781.1	781.1	781.1	785.4	784.1	786.6	788.8	790.5	793.0
7.5°	732.1	730.3	730.4	728.1	730.4	730.3	732.1	734.3	736.9	740.7	744.2
10°	700.4	697.9	697.0	697.4	697.0	697.9	700.4	705.6	707.3	710.7	714.5
12.5°	674.1	673.6	668.0	668.1	668.0	673.6	674.1	675.5	679.2	686.4	691.0
15°	643.2	635.1	634.2	636.8	634.2	635.1	643.2	643.2	644.9	650.4	653.1
17.5°	612.2	608.0	608.2	606.9	608.2	608.0	612.2	612.9	614.2	618.8	622.2
20°	595.8	593.3	592.9	589.9	592.9	593.3	595.8	595.8	597.5	599.7	603.1
22.5°	580.8	580.0	580.2	576.9	580.2	580.0	580.8	581.9	583.6	585.0	587.4
25°	562.1	564.3	562.6	562.6	562.6	564.3	562.1	562.6	563.0	565.1	566.8
27.5°	549.5	549.4	548.5	548.5	548.5	549.4	549.5	548.5	548.0	547.2	546.8
30°	540.0	539.5	540.4	540.4	540.4	539.5	540.0	538.3	537.4	537.0	535.2
32.5°	530.4	531.0	531.2	531.5	531.2	531.0	530.4	528.3	526.8	525.7	524.3
35°	515.6	516.0	517.3	516.5	517.3	516.0	515.6	513.1	511.4	508.7	506.6
37.5°	495.6	497.6	497.2	497.8	497.2	497.6	495.6	494.9	493.2	491.2	488.7
40°	480.6	481.9	481.4	481.4	481.4	481.9	480.6	480.2	478.5	477.2	475.1
42.5°	465.2	466.2	465.0	464.4	465.0	466.2	465.2	464.5	463.4	461.1	458.7
45°	440.0	439.2	440.5	438.8	440.5	439.2	440.0	438.4	437.9	436.2	434.1
47.5°	411.9	412.7	413.1	414.3	413.1	412.7	411.9	412.1	409.7	408.6	408.0
50°	393.1	395.7	395.7	395.3	395.7	395.7	393.1	392.2	390.5	388.8	388.8
52.5°	374.6	375.9	377.6	377.5	377.6	375.9	374.6	373.2	371.5	369.0	368.4
55°	346.2	347.0	347.9	348.3	347.9	347.0	346.2	342.8	341.4	340.1	338.0
57.5°	316.6	316.3	318.3	318.9	318.3	316.3	316.6	313.6	311.6	307.7	307.1
60°	295.8	295.8	299.2	300.5	299.2	295.8	295.8	292.4	289.3	286.8	286.0
62.5°	273.6	275.0	278.3	276.5	278.3	275.0	273.6	269.9	267.5	264.3	262.0
65°	241.2	244.6	244.2	245.8	244.2	244.6	241.2	239.0	234.3	231.3	228.8
67.5°	207.2	209.4	212.5	212.7	212.5	209.4	207.2	203.8	200.8	197.6	194.5
70°	184.4	186.5	188.3	189.5	188.3	186.5	184.4	181.0	177.6	175.5	172.0
72.5°	162.2	163.3	167.4	165.6	167.4	163.3	162.2	158.1	155.4	153.6	149.9
75°	127.2	130.2	132.7	131.4	132.7	130.2	127.2	124.2	122.1	119.5	116.1
77.5°	94.1	97.0	98.2	97.2	98.2	97.0	94.1	92.1	91.0	85.9	85.6
80°	74.3	73.9	76.4	76.0	76.4	73.9	74.3	71.3	69.1	66.1	66.1
82.5°	54.5	54.1	55.2	55.5	55.2	54.1	54.5	52.8	50.1	48.8	47.7
85°	26.5	27.7	26.0	25.6	26.0	27.7	26.5	24.8	24.8	24.8	24.3
87.5°	12.1	12.2	12.0	11.7	12.0	12.2	12.1	12.1	13.3	12.1	11.9
90°	30.1	30.5	31.0	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0
92.5°	34.0	34.2	34.5	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8
95°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8
97.5°	42.5	42.7	43.0	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5
100°	43.3	43.5	43.8	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3
102.5°	43.6	44.0	44.4	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4
105°	44.8	45.2	45.7	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1
107.5°	238.1	207.0	175.9	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4
110°	388.2	354.9	321.6	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4



TEST NUMBER: P332168-930

CATALOG NUMBER: S123DIW-S775D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	515.7	508.7	501.7	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9
115°	613.6	614.6	615.5	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4
117.5°	684.2	684.4	684.6	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3
120°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1
122.5°	777.3	777.5	777.7	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8
125°	841.5	842.0	842.4	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6
127.5°	906.8	906.3	905.8	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6
130°	947.0	946.6	946.1	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3
132.5°	984.5	983.8	983.2	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1
135°	1041.0	1040.3	1039.6	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3
137.5°	1093.3	1092.9	1092.4	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3
140°	1125.2	1124.7	1124.3	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6
142.5°	1155.1	1154.5	1153.8	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1
147.5°	1235.0	1234.0	1232.9	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4
150°	1259.1	1258.3	1257.7	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9
152.5°	1280.3	1279.2	1278.1	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8
155°	1309.4	1308.0	1306.6	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6
157.5°	1334.3	1332.5	1330.6	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6
160°	1348.8	1347.2	1345.6	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8
162.5°	1362.5	1361.1	1359.7	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7
165°	1380.3	1378.7	1377.0	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1
167.5°	1393.3	1391.6	1389.7	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6
170°	1400.9	1399.1	1397.2	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1
172.5°	1405.7	1403.6	1401.6	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1
175°	1411.4	1409.6	1407.7	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1
177.5°	1413.3	1411.4	1409.6	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332168-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	844.7	844.7	851.3	855.3	860.5	863.9	866.3	868.7	872.8	878.2	884.4
5°	796.5	798.2	807.6	816.9	825.9	833.6	840.0	847.7	857.0	868.6	881.4
7.5°	749.7	756.3	765.7	777.1	789.7	800.9	812.3	824.9	838.1	855.1	873.0
10°	719.7	726.9	738.4	752.9	766.1	779.3	793.4	807.1	823.8	843.8	866.9
12.5°	693.3	700.3	712.1	728.0	740.5	755.1	771.3	789.0	807.7	831.8	858.0
15°	656.9	665.0	679.5	687.2	706.4	723.9	738.8	764.4	788.3	813.1	843.4
17.5°	627.0	631.5	643.3	657.5	671.9	691.5	711.1	732.5	756.3	786.5	824.4
20°	606.5	610.3	623.1	638.1	653.5	671.4	688.9	710.2	737.1	769.2	810.1
22.5°	591.2	595.3	603.7	619.6	634.0	648.9	666.3	691.8	720.4	751.7	796.1
25°	568.9	571.5	577.1	589.9	602.7	619.3	634.7	658.6	688.0	724.7	769.2
27.5°	547.9	550.3	555.0	564.2	576.1	589.6	606.3	626.6	656.6	696.4	743.6
30°	535.2	535.7	540.0	548.5	558.7	569.8	585.1	608.2	636.4	676.9	726.4
32.5°	524.3	522.7	525.6	532.1	542.0	553.1	565.7	588.4	615.6	655.4	706.3
35°	505.8	504.9	503.7	509.2	517.7	526.3	537.4	554.5	585.1	622.3	675.6
37.5°	486.9	484.9	482.6	485.1	491.8	500.7	510.3	525.5	552.0	592.9	643.9
40°	473.0	471.2	469.9	469.0	475.1	483.6	490.8	505.3	530.1	568.9	619.3
42.5°	457.5	456.6	454.9	453.7	458.7	465.1	472.7	485.6	510.3	546.7	594.4
45°	432.8	431.9	431.1	430.2	433.3	439.2	445.2	454.5	475.9	511.4	554.5
47.5°	405.2	404.1	404.5	403.1	406.0	410.0	414.2	424.3	444.7	473.4	504.8
50°	385.4	385.0	385.0	385.0	385.9	390.5	394.4	402.1	420.9	449.5	472.1
52.5°	366.6	364.8	364.8	365.5	367.0	370.1	372.5	380.9	397.3	420.8	441.3
55°	337.2	333.8	332.9	333.8	335.1	337.6	340.1	347.0	361.1	378.6	390.5
57.5°	304.6	302.7	301.6	301.7	302.5	304.5	306.5	313.9	325.0	334.1	341.8
60°	281.7	282.6	278.8	279.6	279.6	281.3	284.3	288.9	298.3	304.8	312.4
62.5°	260.2	259.0	257.9	256.7	256.7	257.4	261.4	265.1	273.0	276.4	282.4
65°	226.7	226.7	224.0	224.9	225.3	222.4	224.5	228.8	233.9	235.2	240.8
67.5°	192.7	191.5	190.0	188.7	188.7	188.5	189.6	191.8	195.6	196.0	200.2
70°	169.4	168.6	168.2	166.9	165.2	167.3	166.0	168.2	170.3	170.7	173.3
72.5°	146.9	146.0	145.3	144.0	143.3	143.1	143.2	145.6	147.1	146.5	149.4
75°	114.8	114.0	113.1	111.0	111.0	109.7	110.1	111.9	113.6	112.3	114.8
77.5°	84.3	81.7	81.5	82.1	80.6	81.0	80.4	80.1	81.0	81.0	83.3
80°	64.9	61.9	62.8	62.3	61.9	61.5	60.6	61.1	61.5	61.9	63.2
82.5°	46.8	46.6	45.7	45.6	45.2	44.0	43.5	44.3	44.8	44.5	45.4
85°	23.9	22.6	23.5	23.1	23.5	23.1	21.8	21.8	22.6	22.2	23.1
87.5°	12.4	12.2	11.3	11.0	10.0	9.8	8.9	8.8	8.6	8.2	8.4
90°	26.1	25.2	22.1	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1
92.5°	28.3	26.8	24.5	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5
95°	34.2	32.5	29.9	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9
97.5°	35.6	33.8	50.5	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5
100°	36.4	34.6	70.9	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2
102.5°	63.2	69.0	108.7	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5
105°	188.3	229.6	250.5	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4
107.5°	390.5	420.8	417.5	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7
110°	465.1	472.8	470.3	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	525.8	525.6	523.1	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5
115°	604.1	601.8	599.7	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0
117.5°	677.4	675.6	674.5	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0
120°	725.2	723.3	722.7	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8
122.5°	772.5	771.2	770.3	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5
125°	839.1	838.7	837.7	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1
127.5°	904.8	904.1	902.9	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6
130°	944.4	943.5	942.6	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9
132.5°	982.2	981.2	980.5	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5
135°	1039.6	1038.9	1038.0	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4
137.5°	1090.1	1089.0	1088.5	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7
140°	1122.7	1121.7	1121.0	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3
142.5°	1153.5	1152.8	1152.0	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3
145°	1196.6	1196.1	1195.7	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7
147.5°	1235.0	1234.5	1234.0	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6
150°	1258.5	1258.0	1257.5	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8
152.5°	1279.0	1278.1	1277.8	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4
155°	1307.4	1306.2	1306.0	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3
157.5°	1332.1	1330.7	1331.0	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0
160°	1346.4	1345.0	1345.2	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1
162.5°	1359.2	1357.6	1357.8	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4
165°	1376.2	1374.4	1374.6	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6
167.5°	1389.7	1387.8	1387.8	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0
170°	1397.2	1395.3	1395.3	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5
172.5°	1402.2	1400.4	1400.2	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6
175°	1408.5	1406.9	1406.6	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0
177.5°	1410.9	1409.4	1409.2	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	886.4	888.1	894.0	898.1	902.8	905.6	908.2	910.4	913.1	913.7	923.7
5°	890.4	898.9	913.9	925.0	938.6	953.5	963.8	968.5	980.8	991.1	1011.5
7.5°	889.2	907.4	929.9	953.3	978.4	1001.7	1021.8	1045.7	1062.7	1088.3	1113.4
10°	888.2	912.6	941.6	971.4	1006.5	1038.9	1067.9	1100.3	1127.2	1162.7	1192.9
12.5°	885.2	914.6	954.9	990.3	1032.7	1077.5	1120.5	1162.1	1185.9	1245.0	1272.8
15°	877.6	912.6	963.0	1016.7	1075.1	1128.1	1182.8	1226.3	1296.7	1348.3	1381.2
17.5°	863.1	912.1	971.8	1036.7	1107.7	1177.5	1239.4	1305.5	1380.1	1442.7	1509.3
20°	856.2	910.0	976.6	1048.3	1122.1	1201.1	1271.5	1350.9	1432.4	1493.9	1579.2
22.5°	843.6	904.5	976.2	1056.1	1135.1	1216.8	1299.2	1379.2	1473.4	1558.1	1639.3
25°	822.9	891.2	965.5	1054.7	1147.3	1229.2	1327.9	1434.1	1532.3	1641.1	1722.2
27.5°	801.2	874.2	948.6	1031.5	1131.1	1228.4	1352.4	1472.5	1592.6	1686.5	1746.5
30°	784.5	855.3	932.2	1015.9	1114.4	1230.1	1368.8	1499.8	1616.8	1697.5	1731.2
32.5°	766.4	838.3	906.2	994.0	1099.1	1229.1	1379.1	1515.9	1618.2	1671.9	1665.3
35°	738.0	798.2	864.3	948.8	1072.6	1221.6	1385.0	1517.4	1580.1	1568.6	1481.5
37.5°	697.0	747.6	812.8	905.3	1041.9	1205.7	1373.1	1472.3	1468.3	1374.4	1248.3
40°	671.4	714.5	777.2	874.6	1018.0	1195.6	1354.3	1418.8	1364.2	1233.1	1082.0
42.5°	638.0	677.6	740.4	840.4	991.6	1174.7	1318.4	1337.2	1230.3	1079.5	940.9
45°	586.0	621.0	685.9	789.2	952.3	1129.4	1230.9	1185.3	1041.5	885.7	780.2
47.5°	530.3	566.6	629.1	735.2	895.2	1061.2	1109.5	1012.4	864.7	738.4	641.6
50°	495.1	530.1	591.2	698.3	856.6	1005.2	1025.2	899.8	764.0	653.1	573.6
52.5°	459.6	492.5	552.5	660.1	811.5	940.3	927.9	800.1	675.2	580.7	518.4
55°	406.8	437.9	495.1	595.8	733.7	835.7	790.9	668.9	565.6	492.1	444.7
57.5°	359.5	389.4	438.7	529.7	649.5	719.7	662.6	559.7	477.6	421.1	385.8
60°	327.3	353.8	400.8	485.3	589.5	642.8	586.4	495.5	426.4	381.2	349.6
62.5°	297.0	320.0	363.5	440.3	530.7	575.5	518.5	441.6	382.7	342.6	315.8
65°	250.9	271.9	310.3	370.1	444.3	474.2	425.1	362.8	317.2	287.2	269.3
67.5°	209.0	226.7	259.9	307.0	361.6	383.4	346.0	297.7	263.3	239.4	225.1
70°	181.0	196.3	222.4	262.9	312.4	329.1	294.1	254.4	229.2	210.0	196.7
72.5°	157.4	168.7	192.3	223.6	265.0	278.2	253.8	218.9	195.4	181.0	170.5
75°	119.9	129.3	144.7	169.9	198.4	206.2	187.8	166.0	150.3	140.0	131.9
77.5°	86.5	93.4	104.5	120.0	139.8	146.8	135.1	120.6	109.1	102.2	97.7
80°	65.3	70.8	80.2	93.0	105.0	108.8	102.0	90.9	82.8	79.0	75.1
82.5°	48.3	51.4	57.0	65.7	73.9	78.4	72.6	66.0	61.6	58.1	56.7
85°	24.3	26.0	28.6	32.0	37.1	38.8	36.7	35.0	32.4	30.3	30.3
87.5°	9.5	10.0	11.5	12.6	14.6	16.2	16.5	16.4	16.6	16.5	16.3
90°	3.3	5.7	8.1	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0
92.5°	18.8	18.2	17.5	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8
95°	54.4	44.8	35.3	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8
97.5°	124.3	119.9	115.7	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5
100°	181.8	186.5	191.1	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3
102.5°	235.9	239.2	242.6	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4
105°	315.0	317.6	320.1	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1
107.5°	398.8	400.8	402.8	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4
110°	454.8	456.6	458.4	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	508.3	509.9	511.6	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9
115°	587.4	588.8	590.2	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4
117.5°	664.7	666.4	668.1	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3
120°	712.9	714.9	717.1	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1
122.5°	761.2	762.9	764.6	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8
125°	827.9	829.8	831.7	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6
127.5°	892.5	894.4	896.3	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6
130°	932.8	934.7	936.5	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3
132.5°	971.3	973.2	975.1	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1
135°	1029.8	1031.2	1032.6	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3
137.5°	1080.5	1082.3	1084.0	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3
140°	1113.7	1115.1	1116.5	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6
142.5°	1144.7	1146.1	1147.5	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2
145°	1188.4	1190.0	1191.6	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1
147.5°	1228.7	1229.7	1230.8	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4
150°	1253.4	1254.2	1254.8	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9
152.5°	1275.7	1276.0	1276.4	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8
155°	1306.8	1306.4	1305.9	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6
157.5°	1332.0	1332.0	1331.9	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6
160°	1346.9	1346.6	1346.4	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8
162.5°	1360.7	1360.2	1359.5	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7
165°	1377.9	1377.1	1376.5	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1
167.5°	1391.1	1390.1	1389.2	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6
170°	1398.6	1397.7	1396.8	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1
172.5°	1403.5	1402.3	1401.2	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1
175°	1409.9	1408.8	1407.5	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1
177.5°	1411.8	1410.9	1410.0	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	927.1	927.4	931.2	933.9	932.5	934.3	934.9
5°	1012.8	1028.3	1036.3	1042.3	1042.8	1043.2	1046.6
7.5°	1134.5	1151.0	1163.0	1181.3	1186.7	1192.9	1191.2
10°	1223.3	1247.6	1268.5	1279.6	1291.6	1309.0	1295.0
12.5°	1306.3	1349.4	1381.2	1398.5	1409.7	1413.2	1406.3
15°	1443.1	1499.4	1529.7	1528.8	1567.3	1584.0	1557.9
17.5°	1568.6	1620.6	1662.2	1683.6	1715.6	1722.6	1719.4
20°	1645.4	1702.2	1734.6	1771.3	1788.0	1802.9	1805.5
22.5°	1711.6	1762.6	1797.4	1828.0	1841.9	1849.0	1853.3
25°	1779.9	1820.0	1840.9	1851.5	1855.4	1854.6	1849.0
27.5°	1775.2	1778.2	1755.2	1732.6	1712.4	1689.5	1681.7
30°	1729.1	1693.2	1629.2	1592.9	1539.5	1497.3	1514.3
32.5°	1607.9	1536.5	1464.6	1385.3	1319.6	1301.0	1282.1
35°	1372.2	1246.8	1173.4	1087.9	1053.9	1019.7	996.2
37.5°	1110.2	1013.1	926.0	870.2	836.0	814.4	802.7
40°	959.9	872.5	800.7	755.5	729.4	705.2	701.7
42.5°	840.1	758.7	704.7	668.7	643.8	633.4	625.9
45°	688.0	631.3	595.0	569.4	552.8	546.3	537.8
47.5°	582.4	542.3	515.0	497.6	485.0	480.3	479.6
50°	523.3	490.0	469.9	456.2	446.5	444.7	437.9
52.5°	478.9	450.0	434.4	422.5	415.4	410.6	408.5
55°	415.7	396.5	382.5	375.6	370.1	365.3	365.3
57.5°	363.7	347.7	338.3	332.6	330.8	327.5	325.4
60°	331.7	318.0	310.7	305.6	302.2	302.6	298.8
62.5°	300.2	291.4	284.5	279.3	275.2	275.3	275.6
65°	255.7	248.8	243.7	242.0	239.5	236.4	237.3
67.5°	216.6	210.3	206.3	203.3	202.5	200.9	203.3
70°	188.7	183.9	181.0	178.4	177.6	178.0	180.1
72.5°	163.1	159.7	157.8	156.5	154.7	154.7	156.2
75°	128.1	125.5	123.8	122.5	122.1	122.1	122.1
77.5°	94.1	93.5	92.7	90.8	90.9	91.4	91.5
80°	74.3	73.0	72.6	71.7	70.4	69.5	71.7
82.5°	55.5	54.2	53.8	53.6	51.6	51.4	53.2
85°	29.8	28.6	29.0	28.6	28.6	28.2	28.2
87.5°	16.1	16.1	15.8	16.2	16.0	15.7	16.6
90°	28.0	28.9	29.6	30.1	30.5	31.0	31.5
92.5°	31.3	32.8	33.7	34.0	34.2	34.5	34.8
95°	37.4	39.1	39.9	39.9	39.9	39.9	39.9
97.5°	39.4	41.2	42.2	42.5	42.7	43.0	43.2
100°	40.2	42.1	43.1	43.3	43.5	43.8	44.0
102.5°	51.6	45.9	43.2	43.6	44.0	44.4	44.8
105°	105.9	64.7	44.3	44.8	45.2	45.7	46.1
107.5°	330.1	299.9	269.2	238.1	207.0	175.9	144.9
110°	449.7	442.1	421.5	388.2	354.9	321.6	288.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	526.0	526.2	522.8	515.7	508.7	501.7	494.6
115°	608.7	611.1	612.7	613.6	614.6	615.5	616.4
117.5°	681.1	683.0	684.0	684.2	684.4	684.6	684.8
120°	729.0	730.8	731.7	731.7	731.7	731.7	731.7
122.5°	775.1	776.4	777.1	777.3	777.5	777.7	777.9
125°	840.1	840.5	841.0	841.5	842.0	842.4	842.9
127.5°	906.3	907.1	907.2	906.8	906.3	905.8	905.3
130°	946.3	947.2	947.5	947.0	946.6	946.1	945.6
132.5°	984.1	985.0	985.1	984.5	983.8	983.2	982.5
135°	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9
137.5°	1092.3	1093.5	1093.8	1093.3	1092.9	1092.4	1091.9
140°	1124.5	1125.4	1125.7	1125.2	1124.7	1124.3	1123.8
142.5°	1155.0	1155.8	1155.8	1155.1	1154.5	1153.8	1153.2
145°	1197.5	1198.0	1198.2	1198.2	1198.2	1198.2	1198.2
147.5°	1235.9	1236.4	1236.1	1235.0	1234.0	1232.9	1231.8
150°	1259.4	1259.9	1259.7	1259.1	1258.3	1257.7	1256.9
152.5°	1280.7	1281.5	1281.4	1280.3	1279.2	1278.1	1277.1
155°	1309.7	1310.9	1310.8	1309.4	1308.0	1306.6	1305.2
157.5°	1335.0	1336.4	1336.1	1334.3	1332.5	1330.6	1328.9
160°	1349.2	1350.6	1350.5	1348.8	1347.2	1345.6	1343.9
162.5°	1362.4	1363.9	1364.0	1362.5	1361.1	1359.7	1358.2
165°	1380.0	1381.9	1381.9	1380.3	1378.7	1377.0	1375.4
167.5°	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8
170°	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3
172.5°	1406.0	1407.9	1407.7	1405.7	1403.6	1401.6	1399.5
175°	1411.8	1413.4	1413.2	1411.4	1409.6	1407.7	1405.8
177.5°	1413.9	1415.4	1415.2	1413.3	1411.4	1409.6	1407.7
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0

(END OF REPORT)