

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: P332442-930

Luminaire Tested: **S123RDIW-S775D1320U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332442-930
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: S123RDIW-S775D1320U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6789.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

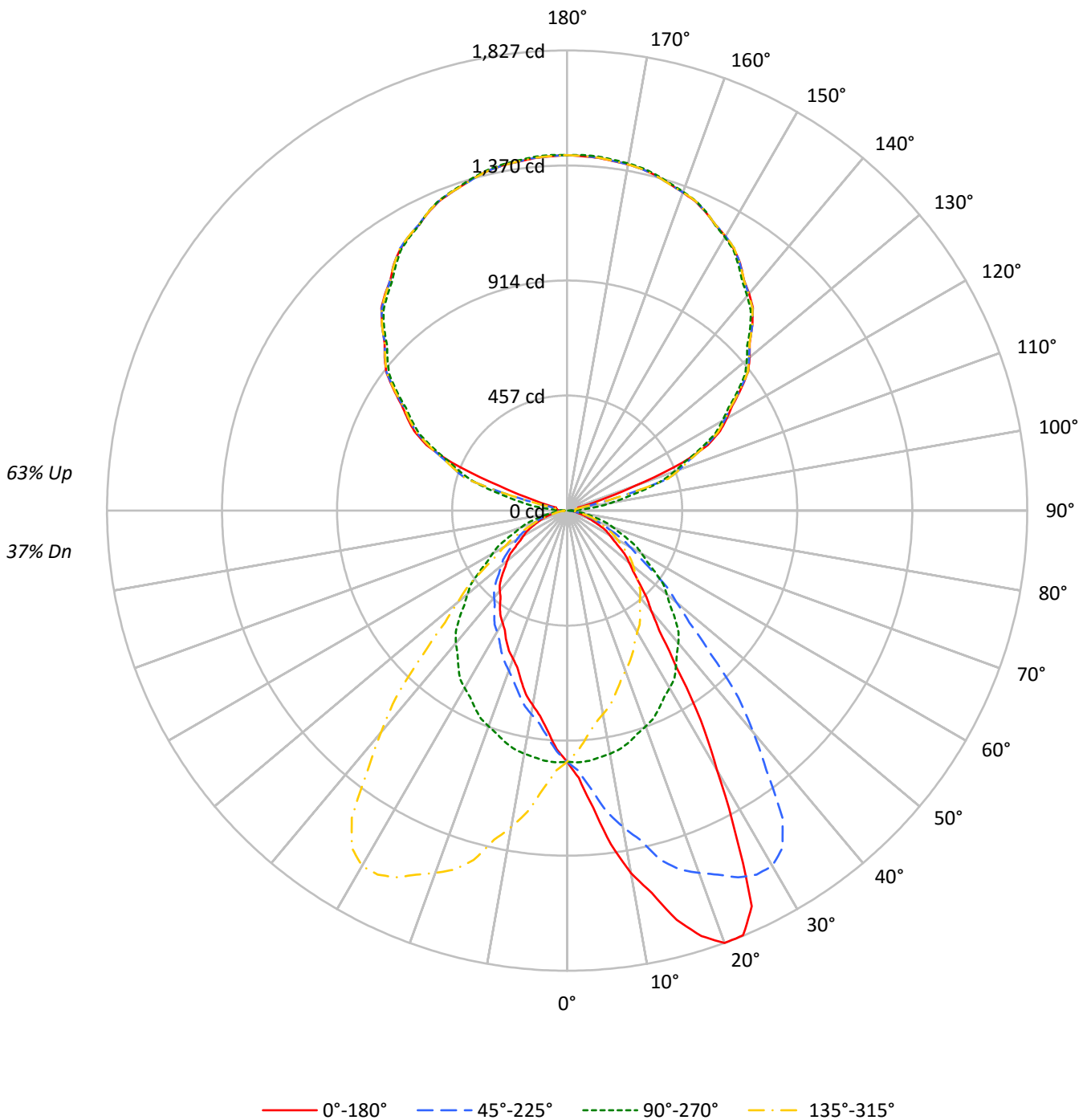
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39	37	34	31	28	26	25	21
5	67	56	48	43	61	51	45	39	42	37	33	34	30	27	26	23	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	23	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	27	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10733	10733	10733	10733
5°	12794	10778	9492	10778
10°	15974	10717	8576	10717
15°	18750	10608	7819	10608
20°	20927	10443	7178	10443
25°	20593	10271	6783	10271
30°	14802	10112	6377	10112
35°	9883	9905	6114	9905
40°	7281	9656	5841	9656
45°	6107	9220	5574	9220
50°	5390	8649	5203	8649
55°	4725	7994	4693	7994
60°	4209	7369	4299	7369
65°	3696	6696	4001	6696
70°	2902	6099	3654	6099
75°	2558	5327	3335	5327
80°	2225	4525	3279	4525
85°	1791	3631	3483	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.4
10°-20°	306.3	4.5
20°-30°	481.3	7.1
30°-40°	502.1	7.4
40°-50°	429.7	6.3
50°-60°	327.5	4.8
60°-70°	209.9	3.1
70°-80°	101.0	1.5
80°-90°	30.7	0.5
90°-100°	51.3	0.8
100°-110°	244.5	3.6
110°-120°	587.3	8.6
120°-130°	747.9	11.0
130°-140°	799.1	11.8
140°-150°	747.2	11.0
150°-160°	602.7	8.9
160°-170°	389.0	5.7
170°-180°	134.1	2.0
0°-30°	885.7	13.0
0°-40°	1387.8	20.4
0°-60°	2145.0	31.6
0°-90°	2486.6	36.6
90°-120°	883.1	13.0
90°-150°	3177.3	46.8
90°-180°	4303.0	63.4
0°-180°	6789.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	997	997	997	997	997	
5°	1184	998	878	998	1184	122
15°	1683	952	702	952	1683	477
25°	1734	865	571	865	1734	745
35°	752	754	465	754	752	493
45°	401	606	366	606	401	315
55°	252	426	250	426	252	228
65°	145	263	157	263	145	143
75°	62	128	80	128	62	66
85°	14	29	28	29	14	17
90°	32	1	32	1	32	15
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°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1062.0	1063.4	1058.9	1058.3	1053.1	1051.7	1051.7	1044.6	1040.2	1034.4	1030.9
5°	1184.1	1190.9	1187.5	1179.8	1167.0	1164.0	1155.9	1143.1	1128.6	1110.7	1102.1
7.5°	1336.5	1345.9	1342.3	1330.4	1317.0	1306.2	1283.3	1262.0	1232.2	1206.1	1183.7
10°	1461.5	1451.7	1444.1	1432.5	1420.2	1400.0	1376.1	1343.3	1305.3	1275.5	1242.1
12.5°	1555.1	1553.5	1543.8	1531.9	1514.4	1495.3	1466.0	1426.0	1381.8	1338.6	1300.6
15°	1682.6	1685.2	1678.8	1666.4	1641.7	1607.9	1563.6	1546.9	1483.8	1436.8	1389.8
17.5°	1770.9	1770.4	1769.5	1752.4	1727.1	1703.2	1662.0	1618.2	1561.0	1494.9	1431.6
20°	1826.9	1822.7	1823.5	1804.3	1785.5	1757.8	1717.7	1654.1	1607.1	1530.7	1465.3
22.5°	1825.5	1824.7	1828.0	1821.4	1807.7	1786.5	1754.9	1701.2	1641.3	1564.2	1490.6
25°	1733.9	1730.5	1750.5	1756.1	1777.8	1781.7	1772.3	1742.9	1686.0	1606.6	1515.7
27.5°	1451.2	1449.3	1486.5	1533.1	1592.1	1638.1	1682.5	1703.9	1686.0	1629.2	1538.1
30°	1190.9	1231.0	1249.9	1317.3	1392.4	1482.1	1560.6	1635.2	1653.6	1628.9	1554.1
32.5°	988.8	1023.8	1039.4	1097.3	1167.3	1272.4	1390.2	1495.9	1570.7	1589.6	1544.6
35°	752.1	752.5	788.4	814.0	878.9	986.8	1101.3	1243.0	1383.8	1490.5	1501.6
37.5°	600.1	602.3	623.9	649.5	698.1	755.3	856.0	973.8	1136.5	1300.3	1396.4
40°	518.2	522.0	538.3	563.5	598.4	641.6	720.1	831.1	966.8	1149.1	1298.0
42.5°	465.6	471.8	480.2	499.6	521.3	561.7	625.2	710.9	834.3	1006.7	1178.5
45°	401.2	404.6	411.1	420.0	439.7	467.8	510.5	568.1	670.6	809.3	981.3
47.5°	353.9	352.1	358.9	366.2	379.2	398.4	427.1	474.1	547.1	658.4	804.4
50°	321.9	321.4	326.1	331.7	344.1	358.2	381.6	417.0	475.1	567.3	700.9
52.5°	291.8	293.4	296.8	303.7	312.6	324.0	345.0	370.6	420.4	500.0	611.4
55°	251.8	253.2	257.8	261.6	268.1	279.6	292.9	314.1	348.3	403.8	495.5
57.5°	218.0	217.4	221.9	222.9	230.2	239.5	249.8	266.4	291.1	332.3	394.1
60°	195.5	194.2	198.0	201.1	204.9	212.5	221.1	237.3	257.0	287.2	340.2
62.5°	175.0	174.4	177.2	180.2	183.4	190.4	197.5	210.0	225.5	251.1	293.1
65°	145.1	146.4	147.7	149.0	150.7	154.9	161.8	170.3	181.0	198.9	229.2
67.5°	114.1	115.4	115.8	118.4	122.1	124.7	128.9	136.5	143.9	159.1	176.3
70°	92.2	91.8	92.2	93.5	98.2	102.9	108.4	114.0	118.6	129.3	143.8
72.5°	79.2	78.4	79.6	79.8	82.1	83.4	86.9	92.1	98.2	105.4	115.9
75°	61.5	61.5	61.5	61.5	63.2	64.0	65.3	66.6	68.7	72.2	79.8
77.5°	45.4	45.5	46.1	46.6	46.9	47.4	48.2	49.4	50.2	52.0	55.4
80°	35.9	36.3	35.9	36.3	36.3	37.1	37.6	38.8	39.3	41.4	42.7
82.5°	27.0	26.7	27.0	27.4	27.4	28.3	28.4	29.3	29.4	30.5	31.8
85°	14.5	13.7	14.5	14.1	14.9	14.1	14.5	15.3	15.3	15.8	17.5
87.5°	9.7	10.3	9.5	9.8	9.7	9.9	9.7	9.5	10.0	9.5	9.2
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	50.5
100°	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3	36.4	34.6	70.9
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°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1029.6	1028.5	1023.8	1018.3	1011.1	1006.3	1002.6	1000.5	994.4	986.8	981.8
5°	1093.2	1080.4	1066.7	1050.0	1034.7	1018.9	1009.1	997.5	983.5	967.7	956.6
7.5°	1161.3	1136.2	1109.1	1081.2	1053.6	1028.9	1007.1	988.3	965.9	943.2	927.4
10°	1213.6	1176.8	1138.8	1100.0	1064.5	1031.3	1005.7	980.5	953.6	927.6	907.9
12.5°	1261.0	1212.7	1168.9	1121.2	1075.9	1036.1	999.1	969.6	937.2	909.5	887.0
15°	1321.1	1271.6	1218.6	1146.1	1085.9	1035.5	990.8	951.9	912.6	878.5	856.7
17.5°	1377.3	1302.8	1231.7	1171.1	1092.9	1030.0	975.3	928.8	885.7	849.5	822.7
20°	1400.5	1328.4	1251.1	1173.9	1097.0	1026.5	963.0	911.7	866.9	826.0	801.2
22.5°	1414.5	1332.8	1251.4	1168.4	1086.8	1013.6	950.7	894.3	845.8	806.8	776.2
25°	1430.8	1333.5	1243.8	1161.9	1078.6	999.2	924.5	864.8	812.3	770.9	738.4
27.5°	1441.5	1327.1	1221.2	1130.0	1045.6	966.5	898.1	834.8	781.5	737.7	702.9
30°	1443.6	1321.9	1203.7	1105.1	1019.3	946.7	874.2	813.6	757.2	710.7	678.2
32.5°	1446.3	1309.3	1180.1	1075.4	987.6	915.7	849.9	792.1	734.3	688.5	655.4
35°	1435.1	1302.4	1144.4	1024.0	936.0	866.5	807.1	753.8	697.1	652.6	618.9
37.5°	1386.6	1274.6	1107.3	966.1	874.2	809.8	761.4	714.9	662.8	614.9	583.2
40°	1337.7	1247.2	1078.6	931.0	834.9	768.7	725.2	687.2	636.8	592.1	557.9
42.5°	1265.0	1210.1	1051.3	894.1	790.5	726.8	690.1	654.4	610.3	564.8	532.6
45°	1131.6	1138.8	995.4	835.4	729.0	665.0	630.5	605.7	566.5	528.9	496.0
47.5°	964.3	1032.1	929.8	772.7	664.2	604.1	574.0	552.4	525.9	489.0	459.0
50°	855.0	951.9	877.2	730.8	623.6	563.9	534.0	516.5	493.4	464.4	435.8
52.5°	754.2	858.3	813.7	684.0	579.6	525.0	495.8	481.4	463.0	435.7	409.9
55°	615.1	720.6	710.3	613.3	513.5	464.4	442.2	426.0	413.6	393.1	372.7
57.5°	497.6	597.5	602.8	534.8	455.3	406.8	387.7	375.4	367.4	351.9	333.0
60°	423.5	515.2	533.1	481.9	413.6	371.0	352.1	342.3	335.9	323.6	309.1
62.5°	362.0	440.1	460.4	423.5	373.7	333.7	319.0	309.6	305.2	294.5	281.7
65°	277.0	341.9	361.5	341.0	315.0	283.0	271.1	262.9	259.1	253.2	243.7
67.5°	208.3	255.6	277.1	262.7	253.3	233.1	225.4	221.1	217.7	213.6	205.8
70°	167.3	202.4	224.5	220.7	213.0	202.4	196.8	193.8	190.4	186.9	180.1
72.5°	134.5	158.7	179.4	181.4	175.1	172.9	168.1	166.8	164.8	160.7	156.9
75°	89.2	105.8	120.3	125.9	128.5	130.6	128.5	128.1	127.6	124.3	122.1
77.5°	58.5	67.4	76.6	86.0	90.1	92.9	93.7	95.2	94.1	92.3	91.2
80°	44.8	47.0	53.3	61.5	67.8	70.4	72.2	73.0	72.6	72.2	70.4
82.5°	32.5	34.3	37.3	43.0	48.4	52.7	53.7	53.6	54.5	54.7	53.3
85°	17.5	17.9	18.8	19.6	22.6	27.3	28.6	29.4	30.3	30.3	27.7
87.5°	9.3	8.3	8.4	7.9	8.4	8.3	9.9	11.2	12.0	11.0	11.5
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: P332442-930

CATALOG NUMBER: S123RDIW-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: P332442-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	980.1	975.6	972.6	965.7	961.2	956.5	951.7	954.8	954.5	954.1	954.1
5°	947.2	937.3	928.4	916.9	909.6	900.7	893.8	893.0	894.7	888.7	885.3
7.5°	914.6	901.2	888.4	875.7	862.3	851.5	844.7	841.6	837.2	833.6	829.7
10°	891.7	875.9	863.5	847.7	833.2	820.4	812.3	806.7	803.7	800.8	795.2
12.5°	868.1	852.6	836.9	819.0	805.2	790.4	784.3	778.0	772.3	769.0	761.4
15°	833.6	813.6	797.0	778.1	762.8	748.3	739.7	727.3	725.6	721.4	713.7
17.5°	799.1	777.3	754.3	740.5	723.1	708.0	695.0	690.8	678.6	674.0	667.3
20°	771.8	751.7	734.2	715.8	690.6	676.5	666.3	660.8	650.9	645.0	640.7
22.5°	748.2	727.8	707.5	686.2	665.4	649.5	642.0	633.4	628.1	619.7	615.1
25°	714.5	692.4	668.1	645.0	630.1	618.1	606.1	598.4	590.8	586.9	578.4
27.5°	675.5	652.2	629.5	612.0	593.7	581.9	571.0	564.2	555.0	548.5	543.8
30°	654.0	626.6	607.0	591.2	567.7	556.6	548.5	540.0	533.1	526.3	521.6
32.5°	629.0	604.1	585.5	565.9	547.9	535.8	525.3	517.8	511.9	505.5	500.8
35°	589.9	569.0	549.8	530.1	516.9	504.5	492.2	485.8	480.2	474.3	469.9
37.5°	554.6	535.0	516.7	498.1	481.8	471.7	461.7	456.8	449.3	445.3	440.9
40°	532.7	513.5	493.8	476.0	458.9	451.2	442.2	435.0	428.1	425.2	420.4
42.5°	508.8	489.6	473.0	453.7	439.8	429.3	421.0	413.1	408.0	403.7	401.0
45°	473.4	456.3	440.1	420.9	407.6	398.7	389.3	382.0	377.3	374.4	369.7
47.5°	439.0	421.9	405.4	388.7	375.9	365.7	356.3	351.2	345.0	341.3	338.2
50°	414.0	398.7	381.2	365.8	353.0	342.8	335.1	328.6	323.1	318.5	316.3
52.5°	391.2	374.8	359.6	345.4	331.8	320.2	313.2	306.5	302.3	296.9	294.4
55°	353.4	337.6	324.8	310.7	297.5	287.7	279.2	273.2	268.9	262.9	259.5
57.5°	318.0	303.9	288.5	276.3	262.7	254.4	247.3	239.2	234.0	229.3	226.0
60°	294.1	277.9	264.6	253.2	241.2	230.5	224.1	217.7	212.1	207.4	204.5
62.5°	269.2	255.0	242.5	229.9	219.0	209.7	202.3	196.9	192.0	189.0	186.1
65°	230.9	219.8	207.0	196.8	186.5	179.7	173.7	169.0	165.6	163.5	160.9
67.5°	195.8	185.0	173.8	163.7	156.9	151.7	147.8	143.7	142.0	139.3	137.6
70°	172.8	161.8	152.0	144.3	137.5	133.6	131.0	128.1	126.4	122.9	121.2
72.5°	148.0	139.9	132.8	126.5	121.1	117.6	114.3	110.6	107.9	104.1	102.5
75°	116.5	109.3	103.7	99.5	96.0	91.3	86.7	82.8	81.5	80.2	79.8
77.5°	86.3	81.7	77.7	74.1	69.9	66.4	65.4	64.6	64.2	63.6	63.6
80°	67.8	63.6	60.6	56.3	53.8	53.8	53.8	52.9	53.3	53.3	53.3
82.5°	50.5	46.6	44.9	43.4	42.9	43.2	43.2	43.4	43.1	43.8	43.5
85°	26.0	26.5	27.3	26.9	27.3	27.3	28.2	27.7	28.2	27.3	28.2
87.5°	11.7	13.2	14.1	15.1	16.1	16.3	16.8	17.0	17.5	17.7	17.9
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: P332442-930

CATALOG NUMBER: S123RDIW-S775D1320U930-4F0-1E-UDD-A

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: P332442-930

CATALOG NUMBER: S123RDIW-S775D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	950.0	949.7	950.0	948.6	950.0	949.7	950.0	954.1	954.1	954.5	954.8
5°	884.0	883.5	882.3	878.5	882.3	883.5	884.0	885.3	888.7	894.7	893.0
7.5°	826.4	825.8	822.1	822.1	822.1	825.8	826.4	829.7	833.6	837.2	841.6
10°	792.2	792.6	787.6	784.6	787.6	792.6	792.2	795.2	800.8	803.7	806.7
12.5°	759.1	757.2	753.0	749.7	753.0	757.2	759.1	761.4	769.0	772.3	778.0
15°	715.4	711.1	700.9	701.7	700.9	711.1	715.4	713.7	721.4	725.6	727.3
17.5°	663.9	660.8	660.6	654.6	660.6	660.8	663.9	667.3	674.0	678.6	690.8
20°	633.9	631.8	632.6	626.6	632.6	631.8	633.9	640.7	645.0	650.9	660.8
22.5°	610.3	608.2	604.6	602.8	604.6	608.2	610.3	615.1	619.7	628.1	633.4
25°	575.8	572.4	569.0	571.1	569.0	572.4	575.8	578.4	586.9	590.8	598.4
27.5°	541.4	538.7	535.3	534.9	535.3	538.7	541.4	543.8	548.5	555.0	564.2
30°	519.5	516.9	515.2	513.1	515.2	516.9	519.5	521.6	526.3	533.1	540.0
32.5°	497.3	496.8	493.7	493.3	493.7	496.8	497.3	500.8	505.5	511.9	517.8
35°	468.2	465.7	464.8	465.3	464.8	465.7	468.2	469.9	474.3	480.2	485.8
37.5°	440.7	437.2	435.7	434.2	435.7	437.2	440.7	440.9	445.3	449.3	456.8
40°	420.9	417.4	416.6	415.7	416.6	417.4	420.9	420.4	425.2	428.1	435.0
42.5°	398.7	397.3	396.8	395.3	396.8	397.3	398.7	401.0	403.7	408.0	413.1
45°	368.4	367.9	365.4	366.2	365.4	367.9	368.4	369.7	374.4	377.3	382.0
47.5°	336.5	334.6	332.8	333.9	332.8	334.6	336.5	338.2	341.3	345.0	351.2
50°	314.6	313.7	309.9	310.7	309.9	313.7	314.6	316.3	318.5	323.1	328.6
52.5°	292.8	289.5	288.0	287.6	288.0	289.5	292.8	294.4	296.9	302.3	306.5
55°	256.6	252.7	250.9	250.1	250.9	252.7	256.6	259.5	262.9	268.9	273.2
57.5°	221.0	220.0	218.7	219.6	218.7	220.0	221.0	226.0	229.3	234.0	239.2
60°	200.2	200.2	200.2	199.7	200.2	200.2	200.2	204.5	207.4	212.1	217.7
62.5°	184.2	183.1	182.8	183.4	182.8	183.1	184.2	186.1	189.0	192.0	196.9
65°	159.6	159.2	157.5	157.1	157.5	159.2	159.6	160.9	163.5	165.6	169.0
67.5°	136.5	134.9	134.4	133.9	134.4	134.9	136.5	137.6	139.3	142.0	143.7
70°	119.1	118.2	115.7	116.1	115.7	118.2	119.1	121.2	122.9	126.4	128.1
72.5°	100.3	99.5	99.0	98.3	99.0	99.5	100.3	102.5	104.1	107.9	110.6
75°	79.4	79.0	78.5	80.2	78.5	79.0	79.4	79.8	80.2	81.5	82.8
77.5°	63.6	63.6	63.8	63.2	63.8	63.6	63.6	63.6	63.6	64.2	64.6
80°	53.3	53.3	52.9	52.9	52.9	53.3	53.3	53.3	53.3	53.3	52.9
82.5°	42.8	43.1	43.4	42.7	43.4	43.1	42.8	43.5	43.8	43.1	43.4
85°	28.2	27.7	28.6	28.2	28.6	27.7	28.2	28.2	27.3	28.2	27.7
87.5°	18.7	18.0	18.2	18.6	18.2	18.0	18.7	17.9	17.7	17.5	17.0
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: P332442-930

CATALOG NUMBER: S123RDIW-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: P332442-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	951.7	956.5	961.2	965.7	972.6	975.6	980.1	981.8	986.8	994.4	1000.5
5°	893.8	900.7	909.6	916.9	928.4	937.3	947.2	956.6	967.7	983.5	997.5
7.5°	844.7	851.5	862.3	875.7	888.4	901.2	914.6	927.4	943.2	965.9	988.3
10°	812.3	820.4	833.2	847.7	863.5	875.9	891.7	907.9	927.6	953.6	980.5
12.5°	784.3	790.4	805.2	819.0	836.9	852.6	868.1	887.0	909.5	937.2	969.6
15°	739.7	748.3	762.8	778.1	797.0	813.6	833.6	856.7	878.5	912.6	951.9
17.5°	695.0	708.0	723.1	740.5	754.3	777.3	799.1	822.7	849.5	885.7	928.8
20°	666.3	676.5	690.6	715.8	734.2	751.7	771.8	801.2	826.0	866.9	911.7
22.5°	642.0	649.5	665.4	686.2	707.5	727.8	748.2	776.2	806.8	845.8	894.3
25°	606.1	618.1	630.1	645.0	668.1	692.4	714.5	738.4	770.9	812.3	864.8
27.5°	571.0	581.9	593.7	612.0	629.5	652.2	675.5	702.9	737.7	781.5	834.8
30°	548.5	556.6	567.7	591.2	607.0	626.6	654.0	678.2	710.7	757.2	813.6
32.5°	525.3	535.8	547.9	565.9	585.5	604.1	629.0	655.4	688.5	734.3	792.1
35°	492.2	504.5	516.9	530.1	549.8	569.0	589.9	618.9	652.6	697.1	753.8
37.5°	461.7	471.7	481.8	498.1	516.7	535.0	554.6	583.2	614.9	662.8	714.9
40°	442.2	451.2	458.9	476.0	493.8	513.5	532.7	557.9	592.1	636.8	687.2
42.5°	421.0	429.3	439.8	453.7	473.0	489.6	508.8	532.6	564.8	610.3	654.4
45°	389.3	398.7	407.6	420.9	440.1	456.3	473.4	496.0	528.9	566.5	605.7
47.5°	356.3	365.7	375.9	388.7	405.4	421.9	439.0	459.0	489.0	525.9	552.4
50°	335.1	342.8	353.0	365.8	381.2	398.7	414.0	435.8	464.4	493.4	516.5
52.5°	313.2	320.2	331.8	345.4	359.6	374.8	391.2	409.9	435.7	463.0	481.4
55°	279.2	287.7	297.5	310.7	324.8	337.6	353.4	372.7	393.1	413.6	426.0
57.5°	247.3	254.4	262.7	276.3	288.5	303.9	318.0	333.0	351.9	367.4	375.4
60°	224.1	230.5	241.2	253.2	264.6	277.9	294.1	309.1	323.6	335.9	342.3
62.5°	202.3	209.7	219.0	229.9	242.5	255.0	269.2	281.7	294.5	305.2	309.6
65°	173.7	179.7	186.5	196.8	207.0	219.8	230.9	243.7	253.2	259.1	262.9
67.5°	147.8	151.7	156.9	163.7	173.8	185.0	195.8	205.8	213.6	217.7	221.1
70°	131.0	133.6	137.5	144.3	152.0	161.8	172.8	180.1	186.9	190.4	193.8
72.5°	114.3	117.6	121.1	126.5	132.8	139.9	148.0	156.9	160.7	164.8	166.8
75°	86.7	91.3	96.0	99.5	103.7	109.3	116.5	122.1	124.3	127.6	128.1
77.5°	65.4	66.4	69.9	74.1	77.7	81.7	86.3	91.2	92.3	94.1	95.2
80°	53.8	53.8	53.8	56.3	60.6	63.6	67.8	70.4	72.2	72.6	73.0
82.5°	43.2	43.2	42.9	43.4	44.9	46.6	50.5	53.3	54.7	54.5	53.6
85°	28.2	27.3	27.3	26.9	27.3	26.5	26.0	27.7	30.3	30.3	29.4
87.5°	16.8	16.3	16.1	15.1	14.1	13.2	11.7	11.5	11.0	12.0	11.2
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°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1002.6	1006.3	1011.1	1018.3	1023.8	1028.5	1029.6	1030.9	1034.4	1040.2	1044.6
5°	1009.1	1018.9	1034.7	1050.0	1066.7	1080.4	1093.2	1102.1	1110.7	1128.6	1143.1
7.5°	1007.1	1028.9	1053.6	1081.2	1109.1	1136.2	1161.3	1183.7	1206.1	1232.2	1262.0
10°	1005.7	1031.3	1064.5	1100.0	1138.8	1176.8	1213.6	1242.1	1275.5	1305.3	1343.3
12.5°	999.1	1036.1	1075.9	1121.2	1168.9	1212.7	1261.0	1300.6	1338.6	1381.8	1426.0
15°	990.8	1035.5	1085.9	1146.1	1218.6	1271.6	1321.1	1389.8	1436.8	1483.8	1546.9
17.5°	975.3	1030.0	1092.9	1171.1	1231.7	1302.8	1377.3	1431.6	1494.9	1561.0	1618.2
20°	963.0	1026.5	1097.0	1173.9	1251.1	1328.4	1400.5	1465.3	1530.7	1607.1	1654.1
22.5°	950.7	1013.6	1086.8	1168.4	1251.4	1332.8	1414.5	1490.6	1564.2	1641.3	1701.2
25°	924.5	999.2	1078.6	1161.9	1243.8	1333.5	1430.8	1515.7	1606.6	1686.0	1742.9
27.5°	898.1	966.5	1045.6	1130.0	1221.2	1327.1	1441.5	1538.1	1629.2	1686.0	1703.9
30°	874.2	946.7	1019.3	1105.1	1203.7	1321.9	1443.6	1554.1	1628.9	1653.6	1635.2
32.5°	849.9	915.7	987.6	1075.4	1180.1	1309.3	1446.3	1544.6	1589.6	1570.7	1495.9
35°	807.1	866.5	936.0	1024.0	1144.4	1302.4	1435.1	1501.6	1490.5	1383.8	1243.0
37.5°	761.4	809.8	874.2	966.1	1107.3	1274.6	1386.6	1396.4	1300.3	1136.5	973.8
40°	725.2	768.7	834.9	931.0	1078.6	1247.2	1337.7	1298.0	1149.1	966.8	831.1
42.5°	690.1	726.8	790.5	894.1	1051.3	1210.1	1265.0	1178.5	1006.7	834.3	710.9
45°	630.5	665.0	729.0	835.4	995.4	1138.8	1131.6	981.3	809.3	670.6	568.1
47.5°	574.0	604.1	664.2	772.7	929.8	1032.1	964.3	804.4	658.4	547.1	474.1
50°	534.0	563.9	623.6	730.8	877.2	951.9	855.0	700.9	567.3	475.1	417.0
52.5°	495.8	525.0	579.6	684.0	813.7	858.3	754.2	611.4	500.0	420.4	370.6
55°	442.2	464.4	513.5	613.3	710.3	720.6	615.1	495.5	403.8	348.3	314.1
57.5°	387.7	406.8	455.3	534.8	602.8	597.5	497.6	394.1	332.3	291.1	266.4
60°	352.1	371.0	413.6	481.9	533.1	515.2	423.5	340.2	287.2	257.0	237.3
62.5°	319.0	333.7	373.7	423.5	460.4	440.1	362.0	293.1	251.1	225.5	210.0
65°	271.1	283.0	315.0	341.0	361.5	341.9	277.0	229.2	198.9	181.0	170.3
67.5°	225.4	233.1	253.3	262.7	277.1	255.6	208.3	176.3	159.1	143.9	136.5
70°	196.8	202.4	213.0	220.7	224.5	202.4	167.3	143.8	129.3	118.6	114.0
72.5°	168.1	172.9	175.1	181.4	179.4	158.7	134.5	115.9	105.4	98.2	92.1
75°	128.5	130.6	128.5	125.9	120.3	105.8	89.2	79.8	72.2	68.7	66.6
77.5°	93.7	92.9	90.1	86.0	76.6	67.4	58.5	55.4	52.0	50.2	49.4
80°	72.2	70.4	67.8	61.5	53.3	47.0	44.8	42.7	41.4	39.3	38.8
82.5°	53.7	52.7	48.4	43.0	37.3	34.3	32.5	31.8	30.5	29.4	29.3
85°	28.6	27.3	22.6	19.6	18.8	17.9	17.5	17.5	15.8	15.3	15.3
87.5°	9.9	8.3	8.4	7.9	8.4	8.3	9.3	9.2	9.5	10.0	9.5
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°	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1051.7	1051.7	1053.1	1058.3	1058.9	1063.4	1062.0
5°	1155.9	1164.0	1167.0	1179.8	1187.5	1190.9	1184.1
7.5°	1283.3	1306.2	1317.0	1330.4	1342.3	1345.9	1336.5
10°	1376.1	1400.0	1420.2	1432.5	1444.1	1451.7	1461.5
12.5°	1466.0	1495.3	1514.4	1531.9	1543.8	1553.5	1555.1
15°	1563.6	1607.9	1641.7	1666.4	1678.8	1685.2	1682.6
17.5°	1662.0	1703.2	1727.1	1752.4	1769.5	1770.4	1770.9
20°	1717.7	1757.8	1785.5	1804.3	1823.5	1822.7	1826.9
22.5°	1754.9	1786.5	1807.7	1821.4	1828.0	1824.7	1825.5
25°	1772.3	1781.7	1777.8	1756.1	1750.5	1730.5	1733.9
27.5°	1682.5	1638.1	1592.1	1533.1	1486.5	1449.3	1451.2
30°	1560.6	1482.1	1392.4	1317.3	1249.9	1231.0	1190.9
32.5°	1390.2	1272.4	1167.3	1097.3	1039.4	1023.8	988.8
35°	1101.3	986.8	878.9	814.0	788.4	752.5	752.1
37.5°	856.0	755.3	698.1	649.5	623.9	602.3	600.1
40°	720.1	641.6	598.4	563.5	538.3	522.0	518.2
42.5°	625.2	561.7	521.3	499.6	480.2	471.8	465.6
45°	510.5	467.8	439.7	420.0	411.1	404.6	401.2
47.5°	427.1	398.4	379.2	366.2	358.9	352.1	353.9
50°	381.6	358.2	344.1	331.7	326.1	321.4	321.9
52.5°	345.0	324.0	312.6	303.7	296.8	293.4	291.8
55°	292.9	279.6	268.1	261.6	257.8	253.2	251.8
57.5°	249.8	239.5	230.2	222.9	221.9	217.4	218.0
60°	221.1	212.5	204.9	201.1	198.0	194.2	195.5
62.5°	197.5	190.4	183.4	180.2	177.2	174.4	175.0
65°	161.8	154.9	150.7	149.0	147.7	146.4	145.1
67.5°	128.9	124.7	122.1	118.4	115.8	115.4	114.1
70°	108.4	102.9	98.2	93.5	92.2	91.8	92.2
72.5°	86.9	83.4	82.1	79.8	79.6	78.4	79.2
75°	65.3	64.0	63.2	61.5	61.5	61.5	61.5
77.5°	48.2	47.4	46.9	46.6	46.1	45.5	45.4
80°	37.6	37.1	36.3	36.3	35.9	36.3	35.9
82.5°	28.4	28.3	27.4	27.4	27.0	26.7	27.0
85°	14.5	14.1	14.9	14.1	14.5	13.7	14.5
87.5°	9.7	9.9	9.7	9.8	9.5	10.3	9.7
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)