

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: P332138-840

Luminaire Tested: **S123DIW-S560D1320U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332138-840
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-S560D1320U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 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: 7744.3 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

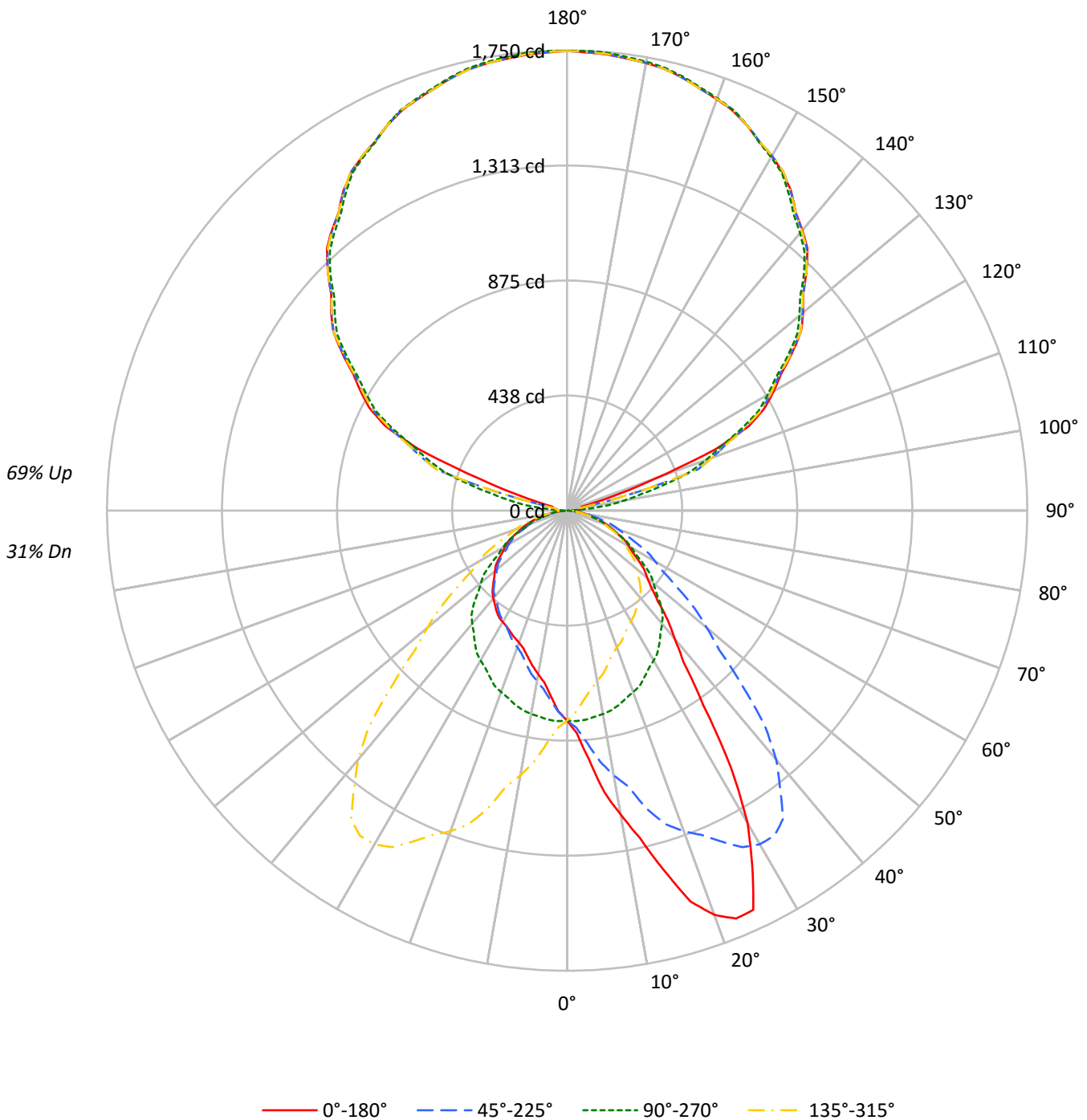
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	14
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8593	8593	8593	8593
5°	10247	8630	7648	8630
10°	12826	8587	6908	8587
15°	15731	8517	6430	8517
20°	18741	8409	6123	8409
25°	19899	8278	6055	8278
30°	17056	8182	6087	8182
35°	11862	8046	6150	8046
40°	8934	7886	6131	7886
45°	7419	7648	6052	7648
50°	6646	7164	5998	7164
55°	6212	6641	5923	6641
60°	5828	6097	5862	6097
65°	5476	5555	5675	5555
70°	5136	4941	5404	4941
75°	4600	4325	4957	4325
80°	4023	3552	4271	3552
85°	3149	2581	2865	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	1.0
10°-20°	252.2	3.3
20°-30°	423.2	5.5
30°-40°	479.2	6.2
40°-50°	429.7	5.5
50°-60°	346.8	4.5
60°-70°	241.7	3.1
70°-80°	127.0	1.6
80°-90°	36.0	0.5
90°-100°	63.5	0.8
100°-110°	302.9	3.9
110°-120°	727.5	9.4
120°-130°	926.3	12.0
130°-140°	989.8	12.8
140°-150°	925.5	12.0
150°-160°	746.6	9.6
160°-170°	481.8	6.2
170°-180°	166.1	2.1
0°-30°	754.0	9.7
0°-40°	1233.2	15.9
0°-60°	2009.7	26.0
0°-90°	2414.3	31.2
90°-120°	1093.9	14.1
90°-150°	3935.5	50.8
90°-180°	5330.0	68.8
0°-180°	7744.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	948	799	708	799	948	98
15°	1412	764	577	764	1412	408
25°	1676	697	510	697	1676	735
35°	903	612	468	612	903	586
45°	487	502	398	502	487	386
55°	331	354	316	354	331	297
65°	215	218	223	218	215	214
75°	111	104	119	104	111	118
85°	26	21	23	21	26	31
90°	39	1	39	1	39	19
95°	49	79	49	79	49	41
105°	57	387	57	387	57	131
115°	764	726	764	726	764	706
125°	1044	1023	1044	1023	1044	932
135°	1287	1274	1287	1274	1287	992
145°	1484	1470	1484	1470	1484	926
155°	1617	1619	1617	1619	1617	745
165°	1704	1708	1704	1708	1704	481
175°	1741	1748	1741	1748	1741	166
180°	1748	1748	1748	1748	1748	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	847.2	846.6	845.1	846.3	843.7	840.4	840.1	837.0	828.0	827.4	825.0
5°	948.4	945.2	944.9	944.5	939.1	931.7	917.8	916.7	898.1	888.8	877.6
7.5°	1079.4	1081.1	1075.4	1070.5	1053.9	1043.0	1028.0	1009.0	986.1	963.0	947.6
10°	1173.5	1186.2	1170.3	1159.5	1149.5	1130.5	1108.5	1081.1	1053.6	1021.5	997.1
12.5°	1274.3	1280.6	1277.5	1267.2	1251.6	1222.7	1183.7	1153.5	1128.1	1074.7	1053.1
15°	1411.7	1435.3	1420.3	1385.4	1386.2	1358.8	1307.7	1251.6	1221.8	1175.0	1111.2
17.5°	1558.1	1561.0	1554.6	1525.6	1506.2	1468.5	1421.4	1367.7	1307.3	1250.7	1183.0
20°	1636.1	1633.8	1620.2	1605.1	1571.9	1542.5	1491.0	1431.1	1353.7	1298.0	1224.2
22.5°	1679.4	1675.5	1669.1	1656.5	1628.8	1597.2	1551.1	1485.5	1411.9	1335.1	1249.8
25°	1675.5	1680.5	1681.3	1677.8	1668.2	1649.2	1612.9	1560.6	1487.1	1388.6	1299.6
27.5°	1523.9	1531.0	1551.7	1570.0	1590.5	1611.3	1608.6	1582.7	1528.3	1443.1	1334.3
30°	1372.3	1356.8	1395.1	1443.4	1476.3	1534.3	1566.8	1568.7	1538.2	1465.1	1359.1
32.5°	1161.8	1178.9	1195.8	1255.3	1327.2	1392.3	1456.9	1509.0	1515.0	1466.3	1373.6
35°	902.7	924.0	954.9	985.9	1063.3	1129.7	1243.4	1342.5	1421.4	1431.8	1374.9
37.5°	727.4	738.0	757.5	788.5	839.1	918.1	1006.0	1131.1	1245.5	1330.5	1334.2
40°	635.8	638.9	661.0	684.6	725.6	790.5	869.9	980.5	1117.4	1236.2	1285.7
42.5°	567.1	574.0	583.3	606.0	638.6	687.5	761.2	852.7	978.2	1114.8	1211.6
45°	487.4	495.0	500.9	515.9	539.2	572.0	623.5	707.0	802.5	943.7	1074.1
47.5°	434.5	435.2	439.5	450.9	466.7	491.4	527.8	581.4	669.1	783.6	917.5
50°	396.9	403.0	404.6	413.4	425.9	444.0	474.2	519.8	591.8	692.4	815.4
52.5°	370.2	372.0	376.4	382.8	393.6	407.8	433.9	469.7	526.1	611.9	725.0
55°	331.0	331.0	335.4	340.3	346.6	359.3	376.7	403.0	446.0	512.5	606.1
57.5°	294.9	296.8	299.8	301.3	306.6	315.1	329.6	349.6	381.6	432.8	507.3
60°	270.7	274.2	273.9	276.9	281.6	288.1	300.5	316.8	345.4	386.4	449.1
62.5°	249.7	249.4	249.4	253.1	257.7	264.0	272.1	286.1	310.4	346.8	400.1
65°	215.0	214.3	217.0	219.3	220.9	225.5	231.7	244.1	260.3	287.4	328.7
67.5°	184.3	182.0	183.5	184.3	186.9	190.6	196.3	204.0	216.9	238.6	269.8
70°	163.2	161.3	160.9	161.7	164.0	166.7	171.0	178.3	190.3	207.7	230.6
72.5°	141.6	140.3	140.2	141.9	143.0	144.7	147.7	154.5	164.0	177.0	198.3
75°	110.6	110.6	110.6	111.0	112.2	113.7	116.0	119.5	126.8	136.1	150.5
77.5°	82.9	82.8	82.4	82.3	84.0	84.7	85.2	88.5	92.6	98.9	109.3
80°	64.9	63.0	63.8	64.9	65.7	66.1	67.3	68.1	71.6	75.0	82.4
82.5°	48.3	46.7	46.8	48.6	48.8	49.1	50.3	51.4	52.7	55.8	59.8
85°	25.5	25.5	26.0	26.0	26.3	26.0	27.1	27.5	27.5	29.4	31.7
87.5°	17.1	16.4	16.6	16.8	16.3	16.5	16.6	16.6	16.7	16.8	16.4
90°	39.0	38.4	37.8	37.3	36.7	35.7	34.6	33.4	32.3	31.2	27.4
92.5°	43.1	42.7	42.4	42.1	41.7	40.6	38.8	37.0	35.0	33.2	30.4
95°	49.4	49.4	49.4	49.4	49.4	48.4	46.4	44.3	42.3	40.3	37.1
97.5°	53.5	53.2	52.9	52.6	52.3	51.0	48.8	46.5	44.1	41.8	62.6
100°	54.5	54.2	53.9	53.6	53.4	52.1	49.8	47.5	45.1	42.8	87.9
102.5°	55.5	55.0	54.5	54.0	53.5	56.9	63.9	71.1	78.3	85.4	134.6
105°	57.2	56.6	55.9	55.4	54.8	80.1	131.2	182.2	233.3	284.4	310.3
107.5°	179.5	217.9	256.4	295.0	333.5	371.4	408.9	446.4	483.7	521.2	517.2
110°	357.1	398.4	439.6	480.9	522.1	547.5	557.0	566.5	576.1	585.6	582.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	612.7	621.4	630.1	638.7	647.5	651.8	651.6	651.5	651.3	651.1	647.9
115°	763.6	762.3	761.2	760.0	758.9	756.9	754.0	751.1	748.2	745.4	742.8
117.5°	848.2	848.0	847.7	847.5	847.3	846.0	843.6	841.4	839.1	836.8	835.5
120°	906.4	906.4	906.4	906.4	906.4	905.2	902.9	900.6	898.3	896.0	895.1
122.5°	963.5	963.3	963.0	962.8	962.6	961.7	960.1	958.5	956.8	955.2	954.1
125°	1044.0	1043.4	1042.9	1042.3	1041.7	1041.1	1040.6	1040.0	1039.4	1038.8	1037.6
127.5°	1121.4	1122.0	1122.6	1123.2	1123.7	1123.6	1122.6	1121.7	1120.7	1119.8	1118.4
130°	1171.2	1171.8	1172.5	1173.0	1173.6	1173.3	1172.2	1170.9	1169.8	1168.6	1167.5
132.5°	1217.0	1217.8	1218.6	1219.4	1220.2	1220.0	1218.9	1217.7	1216.6	1215.4	1214.5
135°	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3	1289.4	1288.6	1287.7	1286.9	1285.7
137.5°	1352.5	1353.1	1353.7	1354.2	1354.8	1354.4	1353.0	1351.7	1350.3	1348.9	1348.3
140°	1392.0	1392.6	1393.1	1393.7	1394.3	1394.0	1392.9	1391.7	1390.6	1389.4	1388.6
142.5°	1428.4	1429.2	1430.0	1430.8	1431.6	1431.6	1430.6	1429.7	1428.8	1427.8	1426.9
145°	1484.2	1484.2	1484.2	1484.2	1484.2	1483.9	1483.3	1482.8	1482.2	1481.6	1481.1
147.5°	1525.7	1527.1	1528.4	1529.7	1531.1	1531.5	1530.9	1530.2	1529.7	1529.1	1528.5
150°	1556.9	1557.8	1558.6	1559.5	1560.3	1560.5	1559.9	1559.3	1558.8	1558.2	1557.6
152.5°	1581.9	1583.2	1584.5	1585.8	1587.2	1587.3	1586.3	1585.2	1584.2	1583.2	1582.8
155°	1616.7	1618.4	1620.1	1621.8	1623.6	1623.8	1622.2	1620.8	1619.4	1617.9	1617.7
157.5°	1646.0	1648.2	1650.5	1652.7	1655.0	1655.3	1653.6	1651.8	1650.0	1648.3	1648.6
160°	1664.7	1666.7	1668.7	1670.7	1672.7	1672.9	1671.2	1669.4	1667.7	1666.0	1666.3
162.5°	1682.3	1684.2	1686.0	1687.7	1689.5	1689.4	1687.5	1685.5	1683.5	1681.5	1681.8
165°	1703.6	1705.7	1707.7	1709.7	1711.7	1711.6	1709.3	1707.0	1704.7	1702.3	1702.6
167.5°	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2	1725.9	1723.6	1721.3	1719.0	1719.0
170°	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6	1735.3	1732.9	1730.6	1728.3	1728.3
172.5°	1733.5	1736.1	1738.6	1741.1	1743.6	1743.8	1741.5	1739.2	1736.9	1734.5	1734.3
175°	1741.3	1743.6	1746.0	1748.3	1750.5	1750.7	1748.7	1746.7	1744.6	1742.6	1742.3
177.5°	1743.6	1746.0	1748.3	1750.6	1752.9	1753.1	1751.3	1749.4	1747.6	1745.8	1745.5
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	823.0	820.6	818.1	813.7	810.0	804.8	803.2	801.4	795.9	790.8	787.2
5°	873.3	864.0	850.5	838.1	828.1	814.6	806.8	798.7	787.1	776.7	768.1
7.5°	925.9	907.7	886.7	863.9	842.7	822.2	805.8	791.1	774.9	759.4	747.5
10°	967.8	941.4	912.0	880.3	853.2	826.9	804.9	785.6	764.7	746.5	731.3
12.5°	1015.3	976.3	935.8	897.3	865.3	828.8	802.1	777.5	753.9	732.0	715.0
15°	1071.8	1022.3	974.3	921.3	872.5	826.9	795.2	764.3	736.8	714.4	692.7
17.5°	1123.1	1067.0	1003.8	939.4	880.6	826.5	782.0	747.1	712.8	685.3	663.7
20°	1152.2	1088.3	1016.8	949.9	884.9	824.6	775.9	734.1	697.0	667.9	643.6
22.5°	1177.3	1102.6	1028.5	957.0	884.6	819.6	764.5	721.4	681.2	652.8	626.9
25°	1203.3	1113.9	1039.7	955.7	874.8	807.6	745.7	697.0	656.7	623.5	596.8
27.5°	1225.6	1113.2	1025.0	934.7	859.6	792.1	726.1	673.8	631.1	594.9	567.8
30°	1240.4	1114.7	1009.9	920.5	844.8	775.1	710.8	658.3	613.4	576.6	551.2
32.5°	1249.7	1113.8	995.9	900.7	821.2	759.6	694.5	640.1	593.9	557.8	533.2
35°	1255.1	1106.9	972.0	859.8	783.3	723.3	668.7	612.3	563.9	530.3	502.4
37.5°	1244.3	1092.7	944.1	820.3	736.5	677.5	631.6	583.5	537.2	500.2	476.2
40°	1227.2	1083.4	922.4	792.5	704.3	647.4	608.4	561.2	515.5	480.4	458.0
42.5°	1194.8	1064.5	898.7	761.5	670.9	614.0	578.0	538.7	495.4	462.4	440.0
45°	1115.5	1023.4	862.9	715.2	621.6	562.8	531.1	502.4	463.3	431.2	411.9
47.5°	1005.4	961.6	811.2	666.2	570.1	513.5	480.5	457.5	428.9	403.0	384.5
50°	929.1	910.9	776.3	632.8	535.6	480.4	448.7	427.8	407.3	381.3	364.4
52.5°	840.8	852.0	735.4	598.1	500.7	446.4	416.5	399.9	381.3	360.0	345.2
55°	716.7	757.3	664.9	540.0	448.7	396.9	368.6	353.9	343.1	327.2	314.5
57.5°	600.5	652.1	588.5	480.0	397.5	352.8	325.8	309.7	302.8	294.5	284.5
60°	531.4	582.5	534.1	439.8	363.1	320.6	296.7	283.2	276.2	270.3	261.9
62.5°	469.9	521.5	480.9	398.9	329.4	290.0	269.1	255.9	250.4	247.4	240.1
65°	385.3	429.7	402.6	335.4	281.1	246.4	227.4	218.1	213.1	212.0	207.3
67.5°	313.6	347.4	327.7	278.1	235.5	205.4	189.3	181.5	177.6	177.2	173.7
70°	266.5	298.2	283.2	238.2	201.5	177.9	164.0	157.0	154.7	154.3	152.4
72.5°	229.9	252.1	240.1	202.7	174.3	152.9	142.6	135.3	132.7	133.3	132.0
75°	170.2	186.8	179.9	153.9	131.1	117.1	108.7	104.0	101.7	102.9	101.3
77.5°	122.5	133.0	126.7	108.8	94.7	84.6	78.4	75.5	73.4	73.3	72.6
80°	92.4	98.7	95.1	84.3	72.7	64.2	59.2	57.3	56.0	55.7	55.3
82.5°	65.8	71.1	67.0	59.6	51.7	46.6	43.7	41.2	40.3	40.5	40.2
85°	33.2	35.2	33.6	29.0	26.0	23.6	22.0	20.9	20.1	20.5	19.7
87.5°	16.2	15.8	14.0	12.1	11.0	9.5	8.9	7.7	7.7	8.2	8.5
90°	23.6	19.9	16.2	12.8	10.0	7.1	4.1	1.3	4.1	7.1	10.0
92.5°	27.6	24.7	21.9	20.9	21.7	22.5	23.3	24.1	23.3	22.5	21.7
95°	33.9	30.7	27.6	31.9	43.7	55.5	67.4	79.2	67.4	55.5	43.7
97.5°	83.4	104.1	124.9	137.9	143.3	148.6	153.9	159.2	153.9	148.6	143.3
100°	132.9	177.9	222.9	242.6	236.7	231.0	225.2	219.4	225.2	231.0	236.7
102.5°	183.8	233.0	282.2	304.7	300.4	296.3	292.2	288.0	292.2	296.3	300.4
105°	336.3	362.2	388.3	399.6	396.5	393.3	390.1	387.0	390.1	393.3	396.5
107.5°	513.0	509.0	504.8	501.5	499.0	496.4	493.9	491.4	493.9	496.4	499.0
110°	579.3	576.1	572.9	570.2	567.8	565.5	563.3	561.0	563.3	565.5	567.8



TEST NUMBER: P332138-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	644.7	641.6	638.3	635.7	633.7	631.6	629.5	627.4	629.5	631.6	633.7
115°	740.1	737.5	735.0	732.8	731.0	729.3	727.6	725.9	727.6	729.3	731.0
117.5°	834.1	832.7	831.4	829.7	827.6	825.5	823.3	821.2	823.3	825.5	827.6
120°	894.2	893.3	892.5	890.8	888.2	885.6	883.0	880.4	883.0	885.6	888.2
122.5°	953.0	951.9	950.8	949.2	947.1	944.9	942.8	940.7	942.8	944.9	947.1
125°	1036.5	1035.3	1034.2	1032.5	1030.2	1027.8	1025.5	1023.2	1025.5	1027.8	1030.2
127.5°	1117.1	1115.7	1114.3	1112.5	1110.1	1107.8	1105.5	1103.2	1105.5	1107.8	1110.1
130°	1166.4	1165.2	1164.1	1162.4	1160.0	1157.7	1155.4	1153.1	1155.4	1157.7	1160.0
132.5°	1213.6	1212.6	1211.7	1210.1	1207.8	1205.5	1203.2	1200.8	1203.2	1205.5	1207.8
135°	1284.5	1283.3	1282.2	1280.8	1279.0	1277.3	1275.6	1273.8	1275.6	1277.3	1279.0
137.5°	1347.7	1347.0	1346.4	1344.9	1342.7	1340.6	1338.4	1336.2	1338.4	1340.6	1342.7
140°	1387.7	1386.8	1385.9	1384.6	1382.9	1381.2	1379.5	1377.8	1379.5	1381.2	1382.9
142.5°	1426.1	1425.2	1424.4	1423.1	1421.4	1419.7	1417.9	1416.1	1417.9	1419.7	1421.4
145°	1480.5	1479.9	1479.3	1478.0	1476.0	1474.0	1472.0	1470.0	1472.0	1474.0	1476.0
147.5°	1527.9	1527.4	1526.8	1525.9	1524.5	1523.2	1521.9	1520.6	1521.9	1523.2	1524.5
150°	1557.0	1556.5	1555.9	1555.2	1554.3	1553.5	1552.6	1551.8	1552.6	1553.5	1554.3
152.5°	1582.5	1582.2	1581.8	1581.3	1580.9	1580.5	1580.1	1579.7	1580.1	1580.5	1580.9
155°	1617.4	1617.1	1616.8	1616.9	1617.5	1618.1	1618.7	1619.2	1618.7	1618.1	1617.5
157.5°	1648.9	1649.2	1649.5	1649.6	1649.7	1649.8	1649.8	1649.9	1649.8	1649.8	1649.7
160°	1666.6	1666.9	1667.2	1667.4	1667.7	1668.0	1668.3	1668.6	1668.3	1668.0	1667.7
162.5°	1682.1	1682.4	1682.7	1683.2	1683.9	1684.8	1685.5	1686.3	1685.5	1684.8	1683.9
165°	1702.9	1703.2	1703.5	1704.0	1705.0	1705.8	1706.7	1707.6	1706.7	1705.8	1705.0
167.5°	1719.0	1719.0	1719.0	1719.5	1720.7	1721.8	1723.0	1724.1	1723.0	1721.8	1720.7
170°	1728.3	1728.3	1728.3	1728.9	1730.1	1731.2	1732.3	1733.5	1732.3	1731.2	1730.1
172.5°	1734.1	1733.8	1733.6	1734.2	1735.6	1737.0	1738.4	1739.8	1738.4	1737.0	1735.6
175°	1742.0	1741.7	1741.4	1742.0	1743.4	1744.9	1746.4	1747.8	1746.4	1744.9	1743.4
177.5°	1745.2	1745.0	1744.8	1745.2	1746.5	1747.6	1748.7	1749.9	1748.7	1747.6	1746.5
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



TEST NUMBER: P332138-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	785.0	782.8	779.7	775.1	771.3	765.5	765.5	766.4	766.4	766.1	765.5
5°	761.1	755.4	748.4	740.3	731.7	723.3	721.8	718.6	716.3	714.8	712.9
7.5°	736.0	725.8	715.6	704.3	693.9	685.3	679.3	674.4	671.2	667.8	665.3
10°	719.0	706.2	694.3	682.3	669.1	658.6	652.1	647.4	644.0	640.9	639.3
12.5°	698.9	684.3	671.1	659.6	645.3	634.5	628.2	626.1	622.0	615.5	612.1
15°	669.5	656.0	640.2	622.7	615.7	602.6	595.2	591.8	589.5	584.4	582.9
17.5°	644.4	626.6	608.8	595.8	582.9	572.3	568.2	563.8	560.8	556.6	555.4
20°	624.3	608.4	592.2	578.2	564.7	553.1	549.6	546.5	543.4	541.5	540.0
22.5°	603.8	587.9	574.5	561.5	547.0	539.5	535.6	532.3	530.1	528.8	527.3
25°	575.1	561.2	546.1	534.5	522.9	517.9	515.5	513.6	512.1	510.2	509.8
27.5°	549.5	534.3	522.1	511.2	502.9	498.7	496.4	495.5	495.8	496.6	497.0
30°	530.3	516.3	506.2	497.0	489.3	485.4	485.0	485.0	486.6	487.0	487.8
32.5°	512.6	501.2	491.1	482.1	476.3	473.6	475.1	475.1	476.4	477.4	478.8
35°	487.0	476.9	469.2	461.4	456.4	457.6	458.3	459.1	461.0	463.3	464.9
37.5°	462.4	453.7	445.7	439.6	437.3	439.4	441.2	442.8	445.1	446.9	448.4
40°	444.7	438.2	430.5	425.1	425.9	427.0	428.6	430.5	432.4	433.5	435.2
42.5°	428.4	421.5	415.7	411.1	412.2	413.7	414.7	415.7	417.9	420.0	420.9
45°	403.4	398.0	392.5	389.9	390.6	391.4	392.2	393.3	395.3	396.9	397.2
47.5°	375.4	371.5	367.9	365.3	366.5	366.2	367.2	369.7	370.3	371.2	373.3
50°	357.4	353.9	349.6	348.9	348.9	348.9	349.2	352.3	352.3	353.9	355.5
52.5°	337.6	335.4	332.6	331.2	330.6	330.6	332.2	333.8	334.4	336.6	338.1
55°	308.2	305.9	303.7	302.5	301.6	302.5	305.6	306.3	308.2	309.4	310.5
57.5°	277.7	275.9	274.1	273.5	273.3	274.3	276.0	278.3	278.8	282.4	284.1
60°	257.6	254.9	253.4	253.4	252.6	256.0	255.3	259.1	259.9	262.3	265.0
62.5°	236.8	233.2	232.6	232.6	233.7	234.7	235.8	237.5	239.5	242.5	244.5
65°	203.5	201.5	204.2	203.8	203.1	205.4	205.4	207.3	209.6	212.4	216.6
67.5°	171.8	170.8	171.1	171.1	172.2	173.5	174.6	176.3	179.0	182.0	184.7
70°	150.5	151.6	149.7	151.3	152.4	152.8	153.5	155.8	159.0	160.9	164.0
72.5°	129.8	129.7	129.9	130.5	131.7	132.4	133.1	135.7	139.2	140.8	143.3
75°	99.8	99.4	100.6	100.6	102.5	103.3	104.0	105.2	108.3	110.6	112.6
77.5°	72.9	73.3	73.1	74.4	73.9	74.0	76.4	77.6	77.9	82.5	83.5
80°	54.9	55.7	56.0	56.5	56.9	56.0	58.8	60.0	60.0	62.6	64.6
82.5°	39.5	39.9	40.9	41.3	41.4	42.1	42.4	43.2	44.1	45.3	47.9
85°	19.7	20.9	21.3	20.9	21.3	20.5	21.6	22.0	22.4	22.4	22.4
87.5°	8.8	9.7	10.2	11.2	11.7	12.7	12.9	12.6	12.8	13.9	12.9
90°	12.8	16.2	19.9	23.6	27.4	31.2	32.3	33.4	34.6	35.7	36.7
92.5°	20.9	21.9	24.7	27.6	30.4	33.2	35.0	37.0	38.8	40.6	41.7
95°	31.9	27.6	30.7	33.9	37.1	40.3	42.3	44.3	46.4	48.4	49.4
97.5°	137.9	124.9	104.1	83.4	62.6	41.8	44.1	46.5	48.8	51.0	52.3
100°	242.6	222.9	177.9	132.9	87.9	42.8	45.1	47.5	49.8	52.1	53.4
102.5°	304.7	282.2	233.0	183.8	134.6	85.4	78.3	71.1	63.9	56.9	53.5
105°	399.6	388.3	362.2	336.3	310.3	284.4	233.3	182.2	131.2	80.1	54.8
107.5°	501.5	504.8	509.0	513.0	517.2	521.2	483.7	446.4	408.9	371.4	333.5
110°	570.2	572.9	576.1	579.3	582.5	585.6	576.1	566.5	557.0	547.5	522.1



TEST NUMBER: P332138-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	635.7	638.3	641.6	644.7	647.9	651.1	651.3	651.5	651.6	651.8	647.5
115°	732.8	735.0	737.5	740.1	742.8	745.4	748.2	751.1	754.0	756.9	758.9
117.5°	829.7	831.4	832.7	834.1	835.5	836.8	839.1	841.4	843.6	846.0	847.3
120°	890.8	892.5	893.3	894.2	895.1	896.0	898.3	900.6	902.9	905.2	906.4
122.5°	949.2	950.8	951.9	953.0	954.1	955.2	956.8	958.5	960.1	961.7	962.6
125°	1032.5	1034.2	1035.3	1036.5	1037.6	1038.8	1039.4	1040.0	1040.6	1041.1	1041.7
127.5°	1112.5	1114.3	1115.7	1117.1	1118.4	1119.8	1120.7	1121.7	1122.6	1123.6	1123.7
130°	1162.4	1164.1	1165.2	1166.4	1167.5	1168.6	1169.8	1170.9	1172.2	1173.3	1173.6
132.5°	1210.1	1211.7	1212.6	1213.6	1214.5	1215.4	1216.6	1217.7	1218.9	1220.0	1220.2
135°	1280.8	1282.2	1283.3	1284.5	1285.7	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3
137.5°	1344.9	1346.4	1347.0	1347.7	1348.3	1348.9	1350.3	1351.7	1353.0	1354.4	1354.8
140°	1384.6	1385.9	1386.8	1387.7	1388.6	1389.4	1390.6	1391.7	1392.9	1394.0	1394.3
142.5°	1423.1	1424.4	1425.2	1426.1	1426.9	1427.8	1428.8	1429.7	1430.6	1431.6	1431.6
145°	1478.0	1479.3	1479.9	1480.5	1481.1	1481.6	1482.2	1482.8	1483.3	1483.9	1484.2
147.5°	1525.9	1526.8	1527.4	1527.9	1528.5	1529.1	1529.7	1530.2	1530.9	1531.5	1531.1
150°	1555.2	1555.9	1556.5	1557.0	1557.6	1558.2	1558.8	1559.3	1559.9	1560.5	1560.3
152.5°	1581.3	1581.8	1582.2	1582.5	1582.8	1583.2	1584.2	1585.2	1586.3	1587.3	1587.2
155°	1616.9	1616.8	1617.1	1617.4	1617.7	1617.9	1619.4	1620.8	1622.2	1623.8	1623.6
157.5°	1649.6	1649.5	1649.2	1648.9	1648.6	1648.3	1650.0	1651.8	1653.6	1655.3	1655.0
160°	1667.4	1667.2	1666.9	1666.6	1666.3	1666.0	1667.7	1669.4	1671.2	1672.9	1672.7
162.5°	1683.2	1682.7	1682.4	1682.1	1681.8	1681.5	1683.5	1685.5	1687.5	1689.4	1689.5
165°	1704.0	1703.5	1703.2	1702.9	1702.6	1702.3	1704.7	1707.0	1709.3	1711.6	1711.7
167.5°	1719.5	1719.0	1719.0	1719.0	1719.0	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2
170°	1728.9	1728.3	1728.3	1728.3	1728.3	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6
172.5°	1734.2	1733.6	1733.8	1734.1	1734.3	1734.5	1736.9	1739.2	1741.5	1743.8	1743.6
175°	1742.0	1741.4	1741.7	1742.0	1742.3	1742.6	1744.6	1746.7	1748.7	1750.7	1750.5
177.5°	1745.2	1744.8	1745.0	1745.2	1745.5	1745.8	1747.6	1749.4	1751.3	1753.1	1752.9
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



TEST NUMBER: P332138-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	763.4	763.1	765.2	763.7	765.2	763.1	763.4	765.5	766.1	766.4	766.4
5°	710.5	711.7	707.8	707.8	707.8	711.7	710.5	712.9	714.8	716.3	718.6
7.5°	663.5	661.8	662.0	659.8	662.0	661.8	663.5	665.3	667.8	671.2	674.4
10°	634.7	632.4	631.6	632.0	631.6	632.4	634.7	639.3	640.9	644.0	647.4
12.5°	610.9	610.4	605.3	605.4	605.3	610.4	610.9	612.1	615.5	622.0	626.1
15°	582.9	575.5	574.7	577.0	574.7	575.5	582.9	582.9	584.4	589.5	591.8
17.5°	554.8	550.9	551.2	550.0	551.2	550.9	554.8	555.4	556.6	560.8	563.8
20°	540.0	537.7	537.2	534.5	537.2	537.7	540.0	540.0	541.5	543.4	546.5
22.5°	526.3	525.5	525.7	522.8	525.7	525.5	526.3	527.3	528.8	530.1	532.3
25°	509.4	511.3	509.8	509.8	509.8	511.3	509.4	509.8	510.2	512.1	513.6
27.5°	498.0	497.9	497.1	497.1	497.1	497.9	498.0	497.0	496.6	495.8	495.5
30°	489.3	488.9	489.7	489.7	489.7	488.9	489.3	487.8	487.0	486.6	485.0
32.5°	480.6	481.1	481.3	481.6	481.3	481.1	480.6	478.8	477.4	476.4	475.1
35°	467.3	467.6	468.8	468.0	468.8	467.6	467.3	464.9	463.3	461.0	459.1
37.5°	449.1	450.9	450.5	451.1	450.5	450.9	449.1	448.4	446.9	445.1	442.8
40°	435.6	436.7	436.3	436.3	436.3	436.7	435.6	435.2	433.5	432.4	430.5
42.5°	421.6	422.4	421.4	420.8	421.4	422.4	421.6	420.9	420.0	417.9	415.7
45°	398.8	398.0	399.2	397.6	399.2	398.0	398.8	397.2	396.9	395.3	393.3
47.5°	373.2	374.1	374.4	375.5	374.4	374.1	373.2	373.3	371.2	370.3	369.7
50°	356.2	358.5	358.5	358.2	358.5	358.5	356.2	355.5	353.9	352.3	352.3
52.5°	339.5	340.6	342.1	342.0	342.1	340.6	339.5	338.1	336.6	334.4	333.8
55°	313.7	314.5	315.2	315.6	315.2	314.5	313.7	310.5	309.4	308.2	306.3
57.5°	286.9	286.6	288.4	289.0	288.4	286.6	286.9	284.1	282.4	278.8	278.3
60°	268.0	268.0	271.1	272.3	271.1	268.0	268.0	265.0	262.3	259.9	259.1
62.5°	247.9	249.1	252.3	250.6	252.3	249.1	247.9	244.5	242.5	239.5	237.5
65°	218.5	221.7	221.3	222.8	221.3	221.7	218.5	216.6	212.4	209.6	207.3
67.5°	187.8	189.8	192.6	192.8	192.6	189.8	187.8	184.7	182.0	179.0	176.3
70°	167.1	169.1	170.6	171.7	170.6	169.1	167.1	164.0	160.9	159.0	155.8
72.5°	146.9	147.9	151.7	150.1	151.7	147.9	146.9	143.3	140.8	139.2	135.7
75°	115.2	118.0	120.3	119.2	120.3	118.0	115.2	112.6	110.6	108.3	105.2
77.5°	85.2	88.0	89.1	88.1	89.1	88.0	85.2	83.5	82.5	77.9	77.6
80°	67.3	67.0	69.3	68.9	69.3	67.0	67.3	64.6	62.6	60.0	60.0
82.5°	49.4	49.0	50.1	50.3	50.1	49.0	49.4	47.9	45.3	44.1	43.2
85°	23.9	25.1	23.6	23.2	23.6	25.1	23.9	22.4	22.4	22.4	22.0
87.5°	13.0	13.1	12.9	12.7	12.9	13.1	13.0	12.9	13.9	12.8	12.6
90°	37.3	37.8	38.4	39.0	38.4	37.8	37.3	36.7	35.7	34.6	33.4
92.5°	42.1	42.4	42.7	43.1	42.7	42.4	42.1	41.7	40.6	38.8	37.0
95°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	48.4	46.4	44.3
97.5°	52.6	52.9	53.2	53.5	53.2	52.9	52.6	52.3	51.0	48.8	46.5
100°	53.6	53.9	54.2	54.5	54.2	53.9	53.6	53.4	52.1	49.8	47.5
102.5°	54.0	54.5	55.0	55.5	55.0	54.5	54.0	53.5	56.9	63.9	71.1
105°	55.4	55.9	56.6	57.2	56.6	55.9	55.4	54.8	80.1	131.2	182.2
107.5°	295.0	256.4	217.9	179.5	217.9	256.4	295.0	333.5	371.4	408.9	446.4
110°	480.9	439.6	398.4	357.1	398.4	439.6	480.9	522.1	547.5	557.0	566.5



TEST NUMBER: P332138-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	638.7	630.1	621.4	612.7	621.4	630.1	638.7	647.5	651.8	651.6	651.5
115°	760.0	761.2	762.3	763.6	762.3	761.2	760.0	758.9	756.9	754.0	751.1
117.5°	847.5	847.7	848.0	848.2	848.0	847.7	847.5	847.3	846.0	843.6	841.4
120°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	905.2	902.9	900.6
122.5°	962.8	963.0	963.3	963.5	963.3	963.0	962.8	962.6	961.7	960.1	958.5
125°	1042.3	1042.9	1043.4	1044.0	1043.4	1042.9	1042.3	1041.7	1041.1	1040.6	1040.0
127.5°	1123.2	1122.6	1122.0	1121.4	1122.0	1122.6	1123.2	1123.7	1123.6	1122.6	1121.7
130°	1173.0	1172.5	1171.8	1171.2	1171.8	1172.5	1173.0	1173.6	1173.3	1172.2	1170.9
132.5°	1219.4	1218.6	1217.8	1217.0	1217.8	1218.6	1219.4	1220.2	1220.0	1218.9	1217.7
135°	1289.4	1288.6	1287.7	1286.9	1287.7	1288.6	1289.4	1290.3	1290.3	1289.4	1288.6
137.5°	1354.2	1353.7	1353.1	1352.5	1353.1	1353.7	1354.2	1354.8	1354.4	1353.0	1351.7
140°	1393.7	1393.1	1392.6	1392.0	1392.6	1393.1	1393.7	1394.3	1394.0	1392.9	1391.7
142.5°	1430.8	1430.0	1429.2	1428.4	1429.2	1430.0	1430.8	1431.6	1431.6	1430.6	1429.7
145°	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1484.2	1483.9	1483.3	1482.8
147.5°	1529.7	1528.4	1527.1	1525.7	1527.1	1528.4	1529.7	1531.1	1531.5	1530.9	1530.2
150°	1559.5	1558.6	1557.8	1556.9	1557.8	1558.6	1559.5	1560.3	1560.5	1559.9	1559.3
152.5°	1585.8	1584.5	1583.2	1581.9	1583.2	1584.5	1585.8	1587.2	1587.3	1586.3	1585.2
155°	1621.8	1620.1	1618.4	1616.7	1618.4	1620.1	1621.8	1623.6	1623.8	1622.2	1620.8
157.5°	1652.7	1650.5	1648.2	1646.0	1648.2	1650.5	1652.7	1655.0	1655.3	1653.6	1651.8
160°	1670.7	1668.7	1666.7	1664.7	1666.7	1668.7	1670.7	1672.7	1672.9	1671.2	1669.4
162.5°	1687.7	1686.0	1684.2	1682.3	1684.2	1686.0	1687.7	1689.5	1689.4	1687.5	1685.5
165°	1709.7	1707.7	1705.7	1703.6	1705.7	1707.7	1709.7	1711.7	1711.6	1709.3	1707.0
167.5°	1725.9	1723.6	1721.3	1719.0	1721.3	1723.6	1725.9	1728.2	1728.2	1725.9	1723.6
170°	1735.3	1732.9	1730.6	1728.3	1730.6	1732.9	1735.3	1737.6	1737.6	1735.3	1732.9
172.5°	1741.1	1738.6	1736.1	1733.5	1736.1	1738.6	1741.1	1743.6	1743.8	1741.5	1739.2
175°	1748.3	1746.0	1743.6	1741.3	1743.6	1746.0	1748.3	1750.5	1750.7	1748.7	1746.7
177.5°	1750.6	1748.3	1746.0	1743.6	1746.0	1748.3	1750.6	1752.9	1753.1	1751.3	1749.4
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	765.5	765.5	771.3	775.1	779.7	782.8	785.0	787.2	790.8	795.9	801.4
5°	721.8	723.3	731.7	740.3	748.4	755.4	761.1	768.1	776.7	787.1	798.7
7.5°	679.3	685.3	693.9	704.3	715.6	725.8	736.0	747.5	759.4	774.9	791.1
10°	652.1	658.6	669.1	682.3	694.3	706.2	719.0	731.3	746.5	764.7	785.6
12.5°	628.2	634.5	645.3	659.6	671.1	684.3	698.9	715.0	732.0	753.9	777.5
15°	595.2	602.6	615.7	622.7	640.2	656.0	669.5	692.7	714.4	736.8	764.3
17.5°	568.2	572.3	582.9	595.8	608.8	626.6	644.4	663.7	685.3	712.8	747.1
20°	549.6	553.1	564.7	578.2	592.2	608.4	624.3	643.6	667.9	697.0	734.1
22.5°	535.6	539.5	547.0	561.5	574.5	587.9	603.8	626.9	652.8	681.2	721.4
25°	515.5	517.9	522.9	534.5	546.1	561.2	575.1	596.8	623.5	656.7	697.0
27.5°	496.4	498.7	502.9	511.2	522.1	534.3	549.5	567.8	594.9	631.1	673.8
30°	485.0	485.4	489.3	497.0	506.2	516.3	530.3	551.2	576.6	613.4	658.3
32.5°	475.1	473.6	476.3	482.1	491.1	501.2	512.6	533.2	557.8	593.9	640.1
35°	458.3	457.6	456.4	461.4	469.2	476.9	487.0	502.4	530.3	563.9	612.3
37.5°	441.2	439.4	437.3	439.6	445.7	453.7	462.4	476.2	500.2	537.2	583.5
40°	428.6	427.0	425.9	425.1	430.5	438.2	444.7	458.0	480.4	515.5	561.2
42.5°	414.7	413.7	412.2	411.1	415.7	421.5	428.4	440.0	462.4	495.4	538.7
45°	392.2	391.4	390.6	389.9	392.5	398.0	403.4	411.9	431.2	463.3	502.4
47.5°	367.2	366.2	366.5	365.3	367.9	371.5	375.4	384.5	403.0	428.9	457.5
50°	349.2	348.9	348.9	348.9	349.6	353.9	357.4	364.4	381.3	407.3	427.8
52.5°	332.2	330.6	330.6	331.2	332.6	335.4	337.6	345.2	360.0	381.3	399.9
55°	305.6	302.5	301.6	302.5	303.7	305.9	308.2	314.5	327.2	343.1	353.9
57.5°	276.0	274.3	273.3	273.5	274.1	275.9	277.7	284.5	294.5	302.8	309.7
60°	255.3	256.0	252.6	253.4	253.4	254.9	257.6	261.9	270.3	276.2	283.2
62.5°	235.8	234.7	233.7	232.6	232.6	233.2	236.8	240.1	247.4	250.4	255.9
65°	205.4	205.4	203.1	203.8	204.2	201.5	203.5	207.3	212.0	213.1	218.1
67.5°	174.6	173.5	172.2	171.1	171.1	170.8	171.8	173.7	177.2	177.6	181.5
70°	153.5	152.8	152.4	151.3	149.7	151.6	150.5	152.4	154.3	154.7	157.0
72.5°	133.1	132.4	131.7	130.5	129.9	129.7	129.8	132.0	133.3	132.7	135.3
75°	104.0	103.3	102.5	100.6	100.6	99.4	99.8	101.3	102.9	101.7	104.0
77.5°	76.4	74.0	73.9	74.4	73.1	73.3	72.9	72.6	73.3	73.4	75.5
80°	58.8	56.0	56.9	56.5	56.0	55.7	54.9	55.3	55.7	56.0	57.3
82.5°	42.4	42.1	41.4	41.3	40.9	39.9	39.5	40.2	40.5	40.3	41.2
85°	21.6	20.5	21.3	20.9	21.3	20.9	19.7	19.7	20.5	20.1	20.9
87.5°	12.9	12.7	11.7	11.2	10.2	9.7	8.8	8.5	8.2	7.7	7.7
90°	32.3	31.2	27.4	23.6	19.9	16.2	12.8	10.0	7.1	4.1	1.3
92.5°	35.0	33.2	30.4	27.6	24.7	21.9	20.9	21.7	22.5	23.3	24.1
95°	42.3	40.3	37.1	33.9	30.7	27.6	31.9	43.7	55.5	67.4	79.2
97.5°	44.1	41.8	62.6	83.4	104.1	124.9	137.9	143.3	148.6	153.9	159.2
100°	45.1	42.8	87.9	132.9	177.9	222.9	242.6	236.7	231.0	225.2	219.4
102.5°	78.3	85.4	134.6	183.8	233.0	282.2	304.7	300.4	296.3	292.2	288.0
105°	233.3	284.4	310.3	336.3	362.2	388.3	399.6	396.5	393.3	390.1	387.0
107.5°	483.7	521.2	517.2	513.0	509.0	504.8	501.5	499.0	496.4	493.9	491.4
110°	576.1	585.6	582.5	579.3	576.1	572.9	570.2	567.8	565.5	563.3	561.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.3	651.1	647.9	644.7	641.6	638.3	635.7	633.7	631.6	629.5	627.4
115°	748.2	745.4	742.8	740.1	737.5	735.0	732.8	731.0	729.3	727.6	725.9
117.5°	839.1	836.8	835.5	834.1	832.7	831.4	829.7	827.6	825.5	823.3	821.2
120°	898.3	896.0	895.1	894.2	893.3	892.5	890.8	888.2	885.6	883.0	880.4
122.5°	956.8	955.2	954.1	953.0	951.9	950.8	949.2	947.1	944.9	942.8	940.7
125°	1039.4	1038.8	1037.6	1036.5	1035.3	1034.2	1032.5	1030.2	1027.8	1025.5	1023.2
127.5°	1120.7	1119.8	1118.4	1117.1	1115.7	1114.3	1112.5	1110.1	1107.8	1105.5	1103.2
130°	1169.8	1168.6	1167.5	1166.4	1165.2	1164.1	1162.4	1160.0	1157.7	1155.4	1153.1
132.5°	1216.6	1215.4	1214.5	1213.6	1212.6	1211.7	1210.1	1207.8	1205.5	1203.2	1200.8
135°	1287.7	1286.9	1285.7	1284.5	1283.3	1282.2	1280.8	1279.0	1277.3	1275.6	1273.8
137.5°	1350.3	1348.9	1348.3	1347.7	1347.0	1346.4	1344.9	1342.7	1340.6	1338.4	1336.2
140°	1390.6	1389.4	1388.6	1387.7	1386.8	1385.9	1384.6	1382.9	1381.2	1379.5	1377.8
142.5°	1428.8	1427.8	1426.9	1426.1	1425.2	1424.4	1423.1	1421.4	1419.7	1417.9	1416.1
145°	1482.2	1481.6	1481.1	1480.5	1479.9	1479.3	1478.0	1476.0	1474.0	1472.0	1470.0
147.5°	1529.7	1529.1	1528.5	1527.9	1527.4	1526.8	1525.9	1524.5	1523.2	1521.9	1520.6
150°	1558.8	1558.2	1557.6	1557.0	1556.5	1555.9	1555.2	1554.3	1553.5	1552.6	1551.8
152.5°	1584.2	1583.2	1582.8	1582.5	1582.2	1581.8	1581.3	1580.9	1580.5	1580.1	1579.7
155°	1619.4	1617.9	1617.7	1617.4	1617.1	1616.8	1616.9	1617.5	1618.1	1618.7	1619.2
157.5°	1650.0	1648.3	1648.6	1648.9	1649.2	1649.5	1649.6	1649.7	1649.8	1649.8	1649.9
160°	1667.7	1666.0	1666.3	1666.6	1666.9	1667.2	1667.4	1667.7	1668.0	1668.3	1668.6
162.5°	1683.5	1681.5	1681.8	1682.1	1682.4	1682.7	1683.2	1683.9	1684.8	1685.5	1686.3
165°	1704.7	1702.3	1702.6	1702.9	1703.2	1703.5	1704.0	1705.0	1705.8	1706.7	1707.6
167.5°	1721.3	1719.0	1719.0	1719.0	1719.0	1719.0	1719.5	1720.7	1721.8	1723.0	1724.1
170°	1730.6	1728.3	1728.3	1728.3	1728.3	1728.3	1728.9	1730.1	1731.2	1732.3	1733.5
172.5°	1736.9	1734.5	1734.3	1734.1	1733.8	1733.6	1734.2	1735.6	1737.0	1738.4	1739.8
175°	1744.6	1742.6	1742.3	1742.0	1741.7	1741.4	1742.0	1743.4	1744.9	1746.4	1747.8
177.5°	1747.6	1745.8	1745.5	1745.2	1745.0	1744.8	1745.2	1746.5	1747.6	1748.7	1749.9
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



TEST NUMBER: P332138-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	803.2	804.8	810.0	813.7	818.1	820.6	823.0	825.0	827.4	828.0	837.0
5°	806.8	814.6	828.1	838.1	850.5	864.0	873.3	877.6	888.8	898.1	916.7
7.5°	805.8	822.2	842.7	863.9	886.7	907.7	925.9	947.6	963.0	986.1	1009.0
10°	804.9	826.9	853.2	880.3	912.0	941.4	967.8	997.1	1021.5	1053.6	1081.1
12.5°	802.1	828.8	865.3	897.3	935.8	976.3	1015.3	1053.1	1074.7	1128.1	1153.5
15°	795.2	826.9	872.5	921.3	974.3	1022.3	1071.8	1111.2	1175.0	1221.8	1251.6
17.5°	782.0	826.5	880.6	939.4	1003.8	1067.0	1123.1	1183.0	1250.7	1307.3	1367.7
20°	775.9	824.6	884.9	949.9	1016.8	1088.3	1152.2	1224.2	1298.0	1353.7	1431.1
22.5°	764.5	819.6	884.6	957.0	1028.5	1102.6	1177.3	1249.8	1335.1	1411.9	1485.5
25°	745.7	807.6	874.8	955.7	1039.7	1113.9	1203.3	1299.6	1388.6	1487.1	1560.6
27.5°	726.1	792.1	859.6	934.7	1025.0	1113.2	1225.6	1334.3	1443.1	1528.3	1582.7
30°	710.8	775.1	844.8	920.5	1009.9	1114.7	1240.4	1359.1	1465.1	1538.2	1568.7
32.5°	694.5	759.6	821.2	900.7	995.9	1113.8	1249.7	1373.6	1466.3	1515.0	1509.0
35°	668.7	723.3	783.3	859.8	972.0	1106.9	1255.1	1374.9	1431.8	1421.4	1342.5
37.5°	631.6	677.5	736.5	820.3	944.1	1092.7	1244.3	1334.2	1330.5	1245.5	1131.1
40°	608.4	647.4	704.3	792.5	922.4	1083.4	1227.2	1285.7	1236.2	1117.4	980.5
42.5°	578.0	614.0	670.9	761.5	898.7	1064.5	1194.8	1211.6	1114.8	978.2	852.7
45°	531.1	562.8	621.6	715.2	862.9	1023.4	1115.5	1074.1	943.7	802.5	707.0
47.5°	480.5	513.5	570.1	666.2	811.2	961.6	1005.4	917.5	783.6	669.1	581.4
50°	448.7	480.4	535.6	632.8	776.3	910.9	929.1	815.4	692.4	591.8	519.8
52.5°	416.5	446.4	500.7	598.1	735.4	852.0	840.8	725.0	611.9	526.1	469.7
55°	368.6	396.9	448.7	540.0	664.9	757.3	716.7	606.1	512.5	446.0	403.0
57.5°	325.8	352.8	397.5	480.0	588.5	652.1	600.5	507.3	432.8	381.6	349.6
60°	296.7	320.6	363.1	439.8	534.1	582.5	531.4	449.1	386.4	345.4	316.8
62.5°	269.1	290.0	329.4	398.9	480.9	521.5	469.9	400.1	346.8	310.4	286.1
65°	227.4	246.4	281.1	335.4	402.6	429.7	385.3	328.7	287.4	260.3	244.1
67.5°	189.3	205.4	235.5	278.1	327.7	347.4	313.6	269.8	238.6	216.9	204.0
70°	164.0	177.9	201.5	238.2	283.2	298.2	266.5	230.6	207.7	190.3	178.3
72.5°	142.6	152.9	174.3	202.7	240.1	252.1	229.9	198.3	177.0	164.0	154.5
75°	108.7	117.1	131.1	153.9	179.9	186.8	170.2	150.5	136.1	126.8	119.5
77.5°	78.4	84.6	94.7	108.8	126.7	133.0	122.5	109.3	98.9	92.6	88.5
80°	59.2	64.2	72.7	84.3	95.1	98.7	92.4	82.4	75.0	71.6	68.1
82.5°	43.7	46.6	51.7	59.6	67.0	71.1	65.8	59.8	55.8	52.7	51.4
85°	22.0	23.6	26.0	29.0	33.6	35.2	33.2	31.7	29.4	27.5	27.5
87.5°	8.9	9.5	11.0	12.1	14.0	15.8	16.2	16.4	16.8	16.7	16.6
90°	4.1	7.1	10.0	12.8	16.2	19.9	23.6	27.4	31.2	32.3	33.4
92.5°	23.3	22.5	21.7	20.9	21.9	24.7	27.6	30.4	33.2	35.0	37.0
95°	67.4	55.5	43.7	31.9	27.6	30.7	33.9	37.1	40.3	42.3	44.3
97.5°	153.9	148.6	143.3	137.9	124.9	104.1	83.4	62.6	41.8	44.1	46.5
100°	225.2	231.0	236.7	242.6	222.9	177.9	132.9	87.9	42.8	45.1	47.5
102.5°	292.2	296.3	300.4	304.7	282.2	233.0	183.8	134.6	85.4	78.3	71.1
105°	390.1	393.3	396.5	399.6	388.3	362.2	336.3	310.3	284.4	233.3	182.2
107.5°	493.9	496.4	499.0	501.5	504.8	509.0	513.0	517.2	521.2	483.7	446.4
110°	563.3	565.5	567.8	570.2	572.9	576.1	579.3	582.5	585.6	576.1	566.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	629.5	631.6	633.7	635.7	638.3	641.6	644.7	647.9	651.1	651.3	651.5
115°	727.6	729.3	731.0	732.8	735.0	737.5	740.1	742.8	745.4	748.2	751.1
117.5°	823.3	825.5	827.6	829.7	831.4	832.7	834.1	835.5	836.8	839.1	841.4
120°	883.0	885.6	888.2	890.8	892.5	893.3	894.2	895.1	896.0	898.3	900.6
122.5°	942.8	944.9	947.1	949.2	950.8	951.9	953.0	954.1	955.2	956.8	958.5
125°	1025.5	1027.8	1030.2	1032.5	1034.2	1035.3	1036.5	1037.6	1038.8	1039.4	1040.0
127.5°	1105.5	1107.8	1110.1	1112.5	1114.3	1115.7	1117.1	1118.4	1119.8	1120.7	1121.7
130°	1155.4	1157.7	1160.0	1162.4	1164.1	1165.2	1166.4	1167.5	1168.6	1169.8	1170.9
132.5°	1203.2	1205.5	1207.8	1210.1	1211.7	1212.6	1213.6	1214.5	1215.4	1216.6	1217.7
135°	1275.6	1277.3	1279.0	1280.8	1282.2	1283.3	1284.5	1285.7	1286.9	1287.7	1288.6
137.5°	1338.4	1340.6	1342.7	1344.9	1346.4	1347.0	1347.7	1348.3	1348.9	1350.3	1351.7
140°	1379.5	1381.2	1382.9	1384.6	1385.9	1386.8	1387.7	1388.6	1389.4	1390.6	1391.7
142.5°	1417.9	1419.7	1421.4	1423.1	1424.4	1425.2	1426.1	1426.9	1427.8	1428.8	1429.7
145°	1472.0	1474.0	1476.0	1478.0	1479.3	1479.9	1480.5	1481.1	1481.6	1482.2	1482.8
147.5°	1521.9	1523.2	1524.5	1525.9	1526.8	1527.4	1527.9	1528.5	1529.1	1529.7	1530.2
150°	1552.6	1553.5	1554.3	1555.2	1555.9	1556.5	1557.0	1557.6	1558.2	1558.8	1559.3
152.5°	1580.1	1580.5	1580.9	1581.3	1581.8	1582.2	1582.5	1582.8	1583.2	1584.2	1585.2
155°	1618.7	1618.1	1617.5	1616.9	1616.8	1617.1	1617.4	1617.7	1617.9	1619.4	1620.8
157.5°	1649.8	1649.8	1649.7	1649.6	1649.5	1649.2	1648.9	1648.6	1648.3	1650.0	1651.8
160°	1668.3	1668.0	1667.7	1667.4	1667.2	1666.9	1666.6	1666.3	1666.0	1667.7	1669.4
162.5°	1685.5	1684.8	1683.9	1683.2	1682.7	1682.4	1682.1	1681.8	1681.5	1683.5	1685.5
165°	1706.7	1705.8	1705.0	1704.0	1703.5	1703.2	1702.9	1702.6	1702.3	1704.7	1707.0
167.5°	1723.0	1721.8	1720.7	1719.5	1719.0	1719.0	1719.0	1719.0	1719.0	1721.3	1723.6
170°	1732.3	1731.2	1730.1	1728.9	1728.3	1728.3	1728.3	1728.3	1728.3	1730.6	1732.9
172.5°	1738.4	1737.0	1735.6	1734.2	1733.6	1733.8	1734.1	1734.3	1734.5	1736.9	1739.2
175°	1746.4	1744.9	1743.4	1742.0	1741.4	1741.7	1742.0	1742.3	1742.6	1744.6	1746.7
177.5°	1748.7	1747.6	1746.5	1745.2	1744.8	1745.0	1745.2	1745.5	1745.8	1747.6	1749.4
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	840.1	840.4	843.7	846.3	845.1	846.6	847.2
5°	917.8	931.7	939.1	944.5	944.9	945.2	948.4
7.5°	1028.0	1043.0	1053.9	1070.5	1075.4	1081.1	1079.4
10°	1108.5	1130.5	1149.5	1159.5	1170.3	1186.2	1173.5
12.5°	1183.7	1222.7	1251.6	1267.2	1277.5	1280.6	1274.3
15°	1307.7	1358.8	1386.2	1385.4	1420.3	1435.3	1411.7
17.5°	1421.4	1468.5	1506.2	1525.6	1554.6	1561.0	1558.1
20°	1491.0	1542.5	1571.9	1605.1	1620.2	1633.8	1636.1
22.5°	1551.1	1597.2	1628.8	1656.5	1669.1	1675.5	1679.4
25°	1612.9	1649.2	1668.2	1677.8	1681.3	1680.5	1675.5
27.5°	1608.6	1611.3	1590.5	1570.0	1551.7	1531.0	1523.9
30°	1566.8	1534.3	1476.3	1443.4	1395.1	1356.8	1372.3
32.5°	1456.9	1392.3	1327.2	1255.3	1195.8	1178.9	1161.8
35°	1243.4	1129.7	1063.3	985.9	954.9	924.0	902.7
37.5°	1006.0	918.1	839.1	788.5	757.5	738.0	727.4
40°	869.9	790.5	725.6	684.6	661.0	638.9	635.8
42.5°	761.2	687.5	638.6	606.0	583.3	574.0	567.1
45°	623.5	572.0	539.2	515.9	500.9	495.0	487.4
47.5°	527.8	491.4	466.7	450.9	439.5	435.2	434.5
50°	474.2	444.0	425.9	413.4	404.6	403.0	396.9
52.5°	433.9	407.8	393.6	382.8	376.4	372.0	370.2
55°	376.7	359.3	346.6	340.3	335.4	331.0	331.0
57.5°	329.6	315.1	306.6	301.3	299.8	296.8	294.9
60°	300.5	288.1	281.6	276.9	273.9	274.2	270.7
62.5°	272.1	264.0	257.7	253.1	249.4	249.4	249.7
65°	231.7	225.5	220.9	219.3	217.0	214.3	215.0
67.5°	196.3	190.6	186.9	184.3	183.5	182.0	184.3
70°	171.0	166.7	164.0	161.7	160.9	161.3	163.2
72.5°	147.7	144.7	143.0	141.9	140.2	140.3	141.6
75°	116.0	113.7	112.2	111.0	110.6	110.6	110.6
77.5°	85.2	84.7	84.0	82.3	82.4	82.8	82.9
80°	67.3	66.1	65.7	64.9	63.8	63.0	64.9
82.5°	50.3	49.1	48.8	48.6	46.8	46.7	48.3
85°	27.1	26.0	26.3	26.0	26.0	25.5	25.5
87.5°	16.6	16.5	16.3	16.8	16.6	16.4	17.1
90°	34.6	35.7	36.7	37.3	37.8	38.4	39.0
92.5°	38.8	40.6	41.7	42.1	42.4	42.7	43.1
95°	46.4	48.4	49.4	49.4	49.4	49.4	49.4
97.5°	48.8	51.0	52.3	52.6	52.9	53.2	53.5
100°	49.8	52.1	53.4	53.6	53.9	54.2	54.5
102.5°	63.9	56.9	53.5	54.0	54.5	55.0	55.5
105°	131.2	80.1	54.8	55.4	55.9	56.6	57.2
107.5°	408.9	371.4	333.5	295.0	256.4	217.9	179.5
110°	557.0	547.5	522.1	480.9	439.6	398.4	357.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	651.6	651.8	647.5	638.7	630.1	621.4	612.7
115°	754.0	756.9	758.9	760.0	761.2	762.3	763.6
117.5°	843.6	846.0	847.3	847.5	847.7	848.0	848.2
120°	902.9	905.2	906.4	906.4	906.4	906.4	906.4
122.5°	960.1	961.7	962.6	962.8	963.0	963.3	963.5
125°	1040.6	1041.1	1041.7	1042.3	1042.9	1043.4	1044.0
127.5°	1122.6	1123.6	1123.7	1123.2	1122.6	1122.0	1121.4
130°	1172.2	1173.3	1173.6	1173.0	1172.5	1171.8	1171.2
132.5°	1218.9	1220.0	1220.2	1219.4	1218.6	1217.8	1217.0
135°	1289.4	1290.3	1290.3	1289.4	1288.6	1287.7	1286.9
137.5°	1353.0	1354.4	1354.8	1354.2	1353.7	1353.1	1352.5
140°	1392.9	1394.0	1394.3	1393.7	1393.1	1392.6	1392.0
142.5°	1430.6	1431.6	1431.6	1430.8	1430.0	1429.2	1428.4
145°	1483.3	1483.9	1484.2	1484.2	1484.2	1484.2	1484.2
147.5°	1530.9	1531.5	1531.1	1529.7	1528.4	1527.1	1525.7
150°	1559.9	1560.5	1560.3	1559.5	1558.6	1557.8	1556.9
152.5°	1586.3	1587.3	1587.2	1585.8	1584.5	1583.2	1581.9
155°	1622.2	1623.8	1623.6	1621.8	1620.1	1618.4	1616.7
157.5°	1653.6	1655.3	1655.0	1652.7	1650.5	1648.2	1646.0
160°	1671.2	1672.9	1672.7	1670.7	1668.7	1666.7	1664.7
162.5°	1687.5	1689.4	1689.5	1687.7	1686.0	1684.2	1682.3
165°	1709.3	1711.6	1711.7	1709.7	1707.7	1705.7	1703.6
167.5°	1725.9	1728.2	1728.2	1725.9	1723.6	1721.3	1719.0
170°	1735.3	1737.6	1737.6	1735.3	1732.9	1730.6	1728.3
172.5°	1741.5	1743.8	1743.6	1741.1	1738.6	1736.1	1733.5
175°	1748.7	1750.7	1750.5	1748.3	1746.0	1743.6	1741.3
177.5°	1751.3	1753.1	1752.9	1750.6	1748.3	1746.0	1743.6
180°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8

(END OF REPORT)