

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

Luminaire Tested: **S123DIW-S560D1320U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332138
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-S560D1320U835-4F0-1E-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: 7668.6 lumens
Efficiency: N/A
Efficacy: 142.5 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

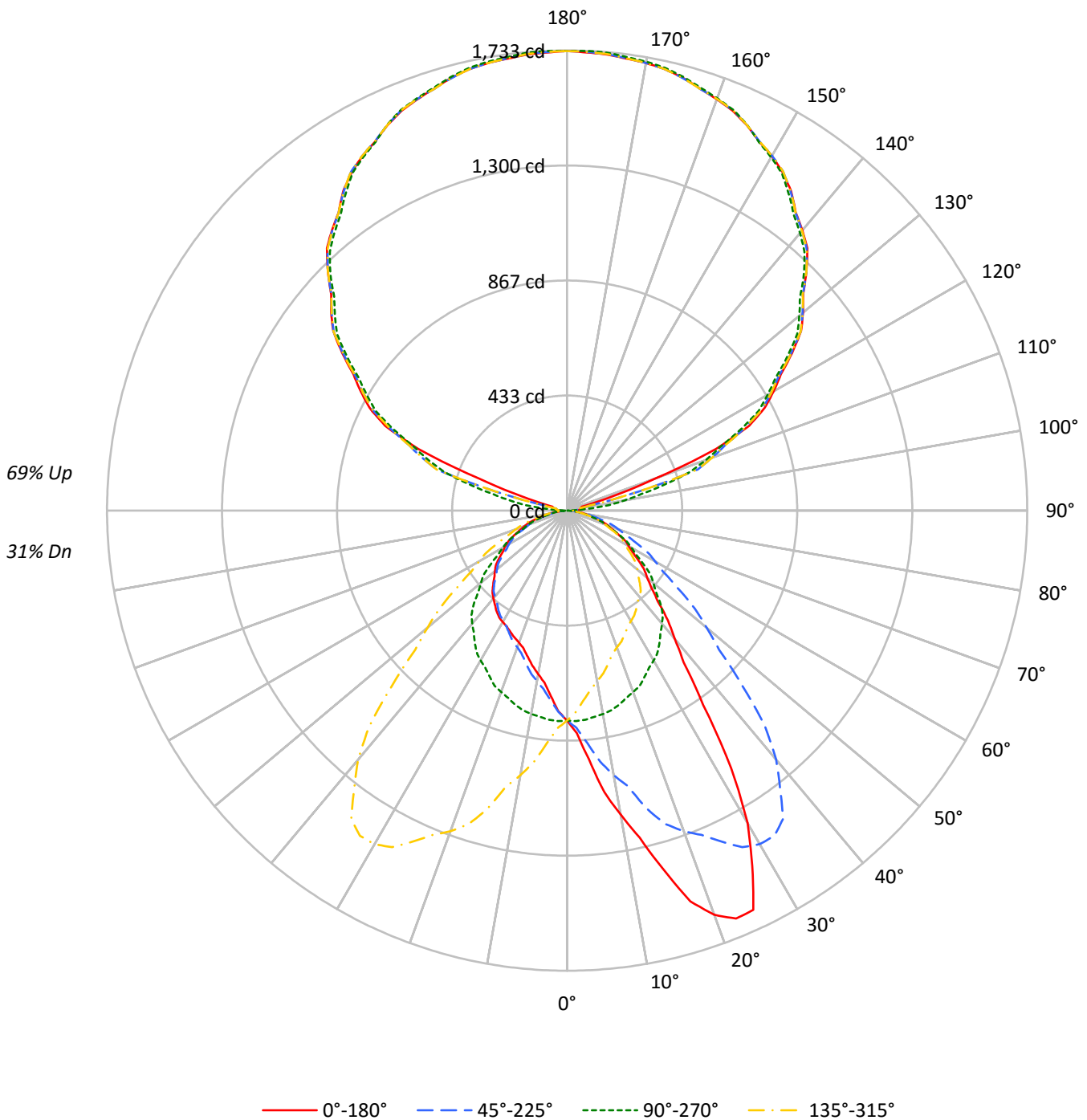
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31	
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	35	34	33	27	
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	31	29	28	23	
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	27	25	24	19	
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	24	22	21	17	
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	30	27	24	14	
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	27	24	21	13	
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	25	21	19	11	
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	23	19	17	10	
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	21	17	15	9	
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	19	16	13	8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	249.7	3.3
20°-30°	419.1	5.5
30°-40°	474.5	6.2
40°-50°	425.5	5.5
50°-60°	343.4	4.5
60°-70°	239.3	3.1
70°-80°	125.8	1.6
80°-90°	35.6	0.5
90°-100°	62.9	0.8
100°-110°	299.9	3.9
110°-120°	720.3	9.4
120°-130°	917.3	12.0
130°-140°	980.1	12.8
140°-150°	916.5	12.0
150°-160°	739.3	9.6
160°-170°	477.1	6.2
170°-180°	164.4	2.1
0°-30°	746.6	9.7
0°-40°	1221.1	15.9
0°-60°	1990.1	26.0
0°-90°	2390.7	31.2
90°-120°	1083.2	14.1
90°-150°	3897.1	50.8
90°-180°	5278.0	68.8
0°-180°	7668.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	39	1	39	1	39	19
95°	49	78	49	78	49	41
105°	57	383	57	383	57	129
115°	756	719	756	719	756	699
125°	1034	1013	1034	1013	1034	923
135°	1274	1261	1274	1261	1274	983
145°	1470	1456	1470	1456	1470	917
155°	1601	1603	1601	1603	1601	738
165°	1687	1691	1687	1691	1687	476
175°	1724	1731	1724	1731	1724	164
180°	1731	1731	1731	1731	1731	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	16.9	16.2	16.4	16.6	16.1	16.3	16.4	16.4	16.5	16.6	16.2
90°	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1	32.0	30.9	27.1
92.5°	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6	34.7	32.9	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.7
97.5°	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0	43.7	41.4	62.0
100°	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0	44.7	42.4	87.0
102.5°	55.0	54.5	54.0	53.5	53.0	56.3	63.3	70.4	77.5	84.6	133.3
105°	56.6	56.0	55.4	54.9	54.3	79.3	129.9	180.4	231.0	281.6	307.3
107.5°	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0	479.0	516.1	512.1
110°	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0	570.5	579.9	576.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1	644.9	644.7	641.6
115°	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8	740.9	738.1	735.5
117.5°	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2	830.9	828.6	827.3
120°	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8	889.5	887.2	886.4
122.5°	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1	947.5	945.9	944.8
125°	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8	1029.2	1028.7	1027.5
127.5°	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7	1109.8	1108.9	1107.5
130°	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5	1158.4	1157.2	1156.1
132.5°	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8	1204.7	1203.5	1202.6
135°	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3	1273.1
137.5°	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5	1337.1	1335.7	1335.1
140°	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1	1377.0	1375.8	1375.0
142.5°	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7	1414.8	1413.9	1413.0
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3	1467.7	1467.1	1466.6
147.5°	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3	1514.8	1514.2	1513.6
150°	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1	1543.6	1543.0	1542.4
152.5°	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7	1568.7	1567.7	1567.3
155°	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0	1603.6	1602.1	1601.9
157.5°	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7	1633.9	1632.2	1632.5
160°	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1	1651.4	1649.7	1650.0
162.5°	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0	1667.1	1665.1	1665.4
165°	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3	1688.0	1685.7	1686.0
167.5°	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2	1702.2
170°	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4	1711.4
172.5°	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2	1719.9	1717.6	1717.4
175°	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6	1727.6	1725.6	1725.3
177.5°	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3	1730.5	1728.7	1728.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	16.0	15.6	13.9	12.0	10.9	9.4	8.8	7.6	7.6	8.1	8.4
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9	23.1	22.3	21.5
95°	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4	66.7	55.0	43.3
97.5°	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6	152.4	147.1	141.9
100°	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3	223.0	228.7	234.4
102.5°	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2	289.3	293.4	297.5
105°	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2	386.3	389.5	392.6
107.5°	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6	489.1	491.6	494.1
110°	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5	557.8	560.0	562.3



TEST NUMBER: P332138

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3	623.4	625.4	627.5
115°	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8	720.5	722.2	723.9
117.5°	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2	815.3	817.4	819.5
120°	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8	874.4	876.9	879.5
122.5°	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5	933.6	935.7	937.8
125°	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2	1015.5	1017.8	1020.1
127.5°	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4	1094.7	1097.0	1099.3
130°	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8	1144.1	1146.4	1148.7
132.5°	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1	1191.4	1193.7	1196.0
135°	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4	1263.1	1264.8	1266.5
137.5°	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1	1325.3	1327.5	1329.6
140°	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3	1366.0	1367.7	1369.4
142.5°	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3	1404.0	1405.8	1407.5
145°	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6	1457.6	1459.6	1461.6
147.5°	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7	1507.0	1508.3	1509.6
150°	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6	1537.4	1538.3	1539.1
152.5°	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3	1564.7	1565.1	1565.5
155°	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4	1602.9	1602.3	1601.7
157.5°	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8	1633.7	1633.7	1633.6
160°	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3	1652.0	1651.7	1651.4
162.5°	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8	1669.0	1668.3	1667.5
165°	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9	1690.0	1689.1	1688.3
167.5°	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3	1706.2	1705.0	1703.9
170°	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6	1715.4	1714.3	1713.2
172.5°	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8	1721.4	1720.0	1718.6
175°	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7	1729.3	1727.9	1726.4
177.5°	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8	1731.6	1730.5	1729.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332138

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	8.7	9.6	10.1	11.1	11.6	12.6	12.8	12.5	12.7	13.8	12.8
90°	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1	34.3	35.4	36.3
92.5°	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6	38.4	40.2	41.3
95°	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0	48.3	50.5	51.8
100°	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0	49.3	51.6	52.9
102.5°	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4	63.3	56.3	53.0
105°	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4	129.9	79.3	54.3
107.5°	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0	404.9	367.8	330.2
110°	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0	551.6	542.2	517.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1	645.2	645.4	641.2
115°	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8	746.6	749.5	751.5
117.5°	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2	835.4	837.7	839.0
120°	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8	894.1	896.4	897.5
122.5°	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1	950.7	952.3	953.2
125°	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8	1030.4	1030.9	1031.5
127.5°	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7	1111.6	1112.6	1112.7
130°	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5	1160.7	1161.8	1162.1
132.5°	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8	1207.0	1208.1	1208.3
135°	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7
137.5°	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5	1339.8	1341.2	1341.6
140°	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1	1379.3	1380.4	1380.7
142.5°	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7	1416.6	1417.6	1417.6
145°	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3	1468.8	1469.4	1469.7
147.5°	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3	1515.9	1516.5	1516.1
150°	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1	1544.7	1545.3	1545.1
152.5°	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7	1570.8	1571.8	1571.7
155°	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0	1606.4	1607.9	1607.7
157.5°	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7	1637.4	1639.1	1638.8
160°	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1	1654.9	1656.6	1656.4
162.5°	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0	1671.0	1672.9	1673.0
165°	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3	1692.6	1694.9	1695.0
167.5°	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3
170°	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6
172.5°	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2	1724.5	1726.8	1726.6
175°	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6	1731.6	1733.6	1733.4
177.5°	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3	1734.2	1736.0	1735.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332138

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	12.9	13.0	12.8	12.6	12.8	13.0	12.9	12.8	13.8	12.7	12.5
90°	36.9	37.4	38.0	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1
92.5°	41.7	42.0	42.3	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.1	52.4	52.7	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0
100°	53.1	53.4	53.7	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0
102.5°	53.5	54.0	54.5	55.0	54.5	54.0	53.5	53.0	56.3	63.3	70.4
105°	54.9	55.4	56.0	56.6	56.0	55.4	54.9	54.3	79.3	129.9	180.4
107.5°	292.1	253.9	215.8	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0
110°	476.2	435.3	394.5	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0



TEST NUMBER: P332138

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	632.5	623.9	615.3	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1
115°	752.6	753.8	754.9	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8
117.5°	839.2	839.4	839.7	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2
120°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8
122.5°	953.4	953.6	953.9	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1
125°	1032.1	1032.7	1033.2	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8
127.5°	1112.2	1111.6	1111.0	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7
130°	1161.5	1161.0	1160.4	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5
132.5°	1207.5	1206.7	1205.9	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8
135°	1276.8	1276.0	1275.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0
137.5°	1341.0	1340.5	1339.9	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5
140°	1380.1	1379.5	1379.0	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1
142.5°	1416.8	1416.0	1415.2	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3
147.5°	1514.8	1513.5	1512.2	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3
150°	1544.3	1543.4	1542.6	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1
152.5°	1570.3	1569.0	1567.7	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7
155°	1606.0	1604.3	1602.6	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0
157.5°	1636.6	1634.4	1632.1	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7
160°	1654.4	1652.4	1650.4	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1
162.5°	1671.2	1669.5	1667.7	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0
165°	1693.0	1691.0	1689.0	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3
167.5°	1709.0	1706.8	1704.5	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8
170°	1718.3	1716.0	1713.7	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0
172.5°	1724.1	1721.6	1719.1	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2
175°	1731.2	1728.9	1726.6	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6
177.5°	1733.5	1731.2	1728.9	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	12.8	12.6	11.6	11.1	10.1	9.6	8.7	8.4	8.1	7.6	7.6
90°	32.0	30.9	27.1	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.7	32.9	30.1	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9
95°	41.9	39.9	36.7	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4
97.5°	43.7	41.4	62.0	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6
100°	44.7	42.4	87.0	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3
102.5°	77.5	84.6	133.3	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2
105°	231.0	281.6	307.3	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2
107.5°	479.0	516.1	512.1	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6
110°	570.5	579.9	576.8	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	644.9	644.7	641.6	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3
115°	740.9	738.1	735.5	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8
117.5°	830.9	828.6	827.3	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2
120°	889.5	887.2	886.4	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8
122.5°	947.5	945.9	944.8	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5
125°	1029.2	1028.7	1027.5	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2
127.5°	1109.8	1108.9	1107.5	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4
130°	1158.4	1157.2	1156.1	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8
132.5°	1204.7	1203.5	1202.6	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1
135°	1275.1	1274.3	1273.1	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4
137.5°	1337.1	1335.7	1335.1	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1
140°	1377.0	1375.8	1375.0	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3
142.5°	1414.8	1413.9	1413.0	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3
145°	1467.7	1467.1	1466.6	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6
147.5°	1514.8	1514.2	1513.6	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7
150°	1543.6	1543.0	1542.4	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6
152.5°	1568.7	1567.7	1567.3	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3
155°	1603.6	1602.1	1601.9	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4
157.5°	1633.9	1632.2	1632.5	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8
160°	1651.4	1649.7	1650.0	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3
162.5°	1667.1	1665.1	1665.4	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8
165°	1688.0	1685.7	1686.0	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9
167.5°	1704.5	1702.2	1702.2	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3
170°	1713.7	1711.4	1711.4	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6
172.5°	1719.9	1717.6	1717.4	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8
175°	1727.6	1725.6	1725.3	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7
177.5°	1730.5	1728.7	1728.4	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.8	9.4	10.9	12.0	13.9	15.6	16.0	16.2	16.6	16.5	16.4
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1
92.5°	23.1	22.3	21.5	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6
95°	66.7	55.0	43.3	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9
97.5°	152.4	147.1	141.9	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0
100°	223.0	228.7	234.4	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0
102.5°	289.3	293.4	297.5	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4
105°	386.3	389.5	392.6	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4
107.5°	489.1	491.6	494.1	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0
110°	557.8	560.0	562.3	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	623.4	625.4	627.5	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1
115°	720.5	722.2	723.9	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8
117.5°	815.3	817.4	819.5	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2
120°	874.4	876.9	879.5	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8
122.5°	933.6	935.7	937.8	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1
125°	1015.5	1017.8	1020.1	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8
127.5°	1094.7	1097.0	1099.3	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7
130°	1144.1	1146.4	1148.7	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5
132.5°	1191.4	1193.7	1196.0	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8
135°	1263.1	1264.8	1266.5	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0
137.5°	1325.3	1327.5	1329.6	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5
140°	1366.0	1367.7	1369.4	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1
142.5°	1404.0	1405.8	1407.5	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7
145°	1457.6	1459.6	1461.6	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3
147.5°	1507.0	1508.3	1509.6	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3
150°	1537.4	1538.3	1539.1	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1
152.5°	1564.7	1565.1	1565.5	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7
155°	1602.9	1602.3	1601.7	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0
157.5°	1633.7	1633.7	1633.6	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7
160°	1652.0	1651.7	1651.4	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1
162.5°	1669.0	1668.3	1667.5	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0
165°	1690.0	1689.1	1688.3	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3
167.5°	1706.2	1705.0	1703.9	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8
170°	1715.4	1714.3	1713.2	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0
172.5°	1721.4	1720.0	1718.6	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2
175°	1729.3	1727.9	1726.4	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6
177.5°	1731.6	1730.5	1729.4	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	16.4	16.3	16.1	16.6	16.4	16.2	16.9
90°	34.3	35.4	36.3	36.9	37.4	38.0	38.6
92.5°	38.4	40.2	41.3	41.7	42.0	42.3	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.5	51.8	52.1	52.4	52.7	53.0
100°	49.3	51.6	52.9	53.1	53.4	53.7	54.0
102.5°	63.3	56.3	53.0	53.5	54.0	54.5	55.0
105°	129.9	79.3	54.3	54.9	55.4	56.0	56.6
107.5°	404.9	367.8	330.2	292.1	253.9	215.8	177.7
110°	551.6	542.2	517.0	476.2	435.3	394.5	353.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.2	645.4	641.2	632.5	623.9	615.3	606.7
115°	746.6	749.5	751.5	752.6	753.8	754.9	756.1
117.5°	835.4	837.7	839.0	839.2	839.4	839.7	839.9
120°	894.1	896.4	897.5	897.5	897.5	897.5	897.5
122.5°	950.7	952.3	953.2	953.4	953.6	953.9	954.1
125°	1030.4	1030.9	1031.5	1032.1	1032.7	1033.2	1033.8
127.5°	1111.6	1112.6	1112.7	1112.2	1111.6	1111.0	1110.4
130°	1160.7	1161.8	1162.1	1161.5	1161.0	1160.4	1159.8
132.5°	1207.0	1208.1	1208.3	1207.5	1206.7	1205.9	1205.1
135°	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3
137.5°	1339.8	1341.2	1341.6	1341.0	1340.5	1339.9	1339.3
140°	1379.3	1380.4	1380.7	1380.1	1379.5	1379.0	1378.4
142.5°	1416.6	1417.6	1417.6	1416.8	1416.0	1415.2	1414.4
145°	1468.8	1469.4	1469.7	1469.7	1469.7	1469.7	1469.7
147.5°	1515.9	1516.5	1516.1	1514.8	1513.5	1512.2	1510.8
150°	1544.7	1545.3	1545.1	1544.3	1543.4	1542.6	1541.7
152.5°	1570.8	1571.8	1571.7	1570.3	1569.0	1567.7	1566.4
155°	1606.4	1607.9	1607.7	1606.0	1604.3	1602.6	1600.9
157.5°	1637.4	1639.1	1638.8	1636.6	1634.4	1632.1	1629.9
160°	1654.9	1656.6	1656.4	1654.4	1652.4	1650.4	1648.4
162.5°	1671.0	1672.9	1673.0	1671.2	1669.5	1667.7	1665.9
165°	1692.6	1694.9	1695.0	1693.0	1691.0	1689.0	1687.0
167.5°	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2
170°	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4
172.5°	1724.5	1726.8	1726.6	1724.1	1721.6	1719.1	1716.6
175°	1731.6	1733.6	1733.4	1731.2	1728.9	1726.6	1724.3
177.5°	1734.2	1736.0	1735.8	1733.5	1731.2	1728.9	1726.6
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7

(END OF REPORT)