

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: P332144-940

Luminaire Tested: **S123DIW-S560D1535U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332144-940
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-S560D1535U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7604.5 lumens
Efficiency: N/A
Efficacy: 125.5 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

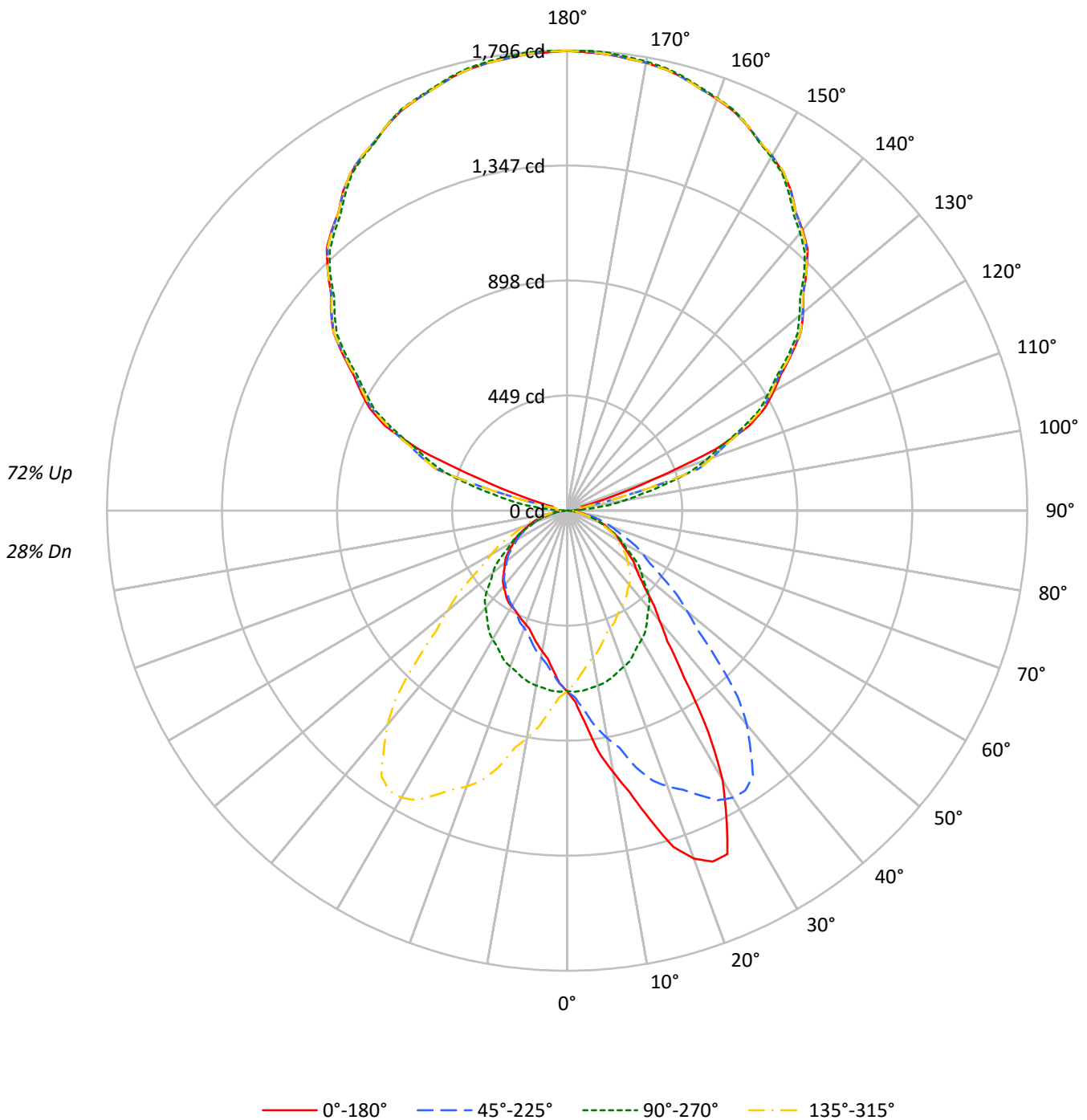
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	24	28	24	20	22	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	39	30	23	19	24	19	16	18	15	13	13	11	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	0.9
10°-20°	222.7	2.9
20°-30°	373.7	4.9
30°-40°	423.1	5.6
40°-50°	379.5	5.0
50°-60°	306.2	4.0
60°-70°	213.4	2.8
70°-80°	112.2	1.5
80°-90°	32.5	0.4
90°-100°	65.2	0.9
100°-110°	310.9	4.1
110°-120°	746.8	9.8
120°-130°	951.0	12.5
130°-140°	1016.1	13.4
140°-150°	950.2	12.5
150°-160°	766.5	10.1
160°-170°	494.7	6.5
170°-180°	170.5	2.2
0°-30°	665.8	8.8
0°-40°	1088.9	14.3
0°-60°	1774.6	23.3
0°-90°	2132.6	28.0
90°-120°	1123.0	14.8
90°-150°	4040.3	53.1
90°-180°	5472.0	72.0
0°-180°	7604.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	28
90°	40	1	40	1	40	19
95°	51	81	51	81	51	42
105°	59	397	59	397	59	134
115°	784	745	784	745	784	724
125°	1072	1050	1072	1050	1072	957
135°	1321	1308	1321	1308	1321	1019
145°	1524	1509	1524	1509	1524	951
155°	1660	1662	1660	1662	1660	765
165°	1749	1753	1749	1753	1749	494
175°	1788	1794	1788	1794	1788	170
180°	1794	1794	1794	1794	1794	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	16.2	15.5	15.7	15.9	15.4	15.5	15.6	15.6	15.7	15.7	15.2
90°	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3	33.2	32.0	28.2
92.5°	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9	36.0	34.2	31.2
95°	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5	43.4	41.3	38.1
97.5°	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7	45.3	42.9	64.3
100°	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7	46.4	44.0	90.2
102.5°	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0	80.3	87.7	138.2
105°	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1	239.5	291.9	318.6
107.5°	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2	496.7	535.1	530.9
110°	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7	591.5	601.2	598.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8	668.6	668.4	665.1
115°	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2	768.1	765.2	762.5
117.5°	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8	861.4	859.1	857.6
120°	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6	922.2	919.8	918.9
122.5°	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9	982.3	980.6	979.5
125°	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6	1067.1	1066.5	1065.3
127.5°	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6	1150.6	1149.7	1148.3
130°	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1	1201.0	1199.8	1198.6
132.5°	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2	1248.9	1247.8	1246.8
135°	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1	1319.9
137.5°	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7	1386.3	1384.8	1384.2
140°	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8	1427.6	1426.4	1425.5
142.5°	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8	1466.8	1465.9	1465.0
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2	1521.6	1521.1	1520.5
147.5°	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0	1570.5	1569.9	1569.2
150°	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9	1600.3	1599.7	1599.1
152.5°	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5	1626.4	1625.3	1625.0
155°	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0	1662.5	1661.0	1660.7
157.5°	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8	1694.0	1692.2	1692.6
160°	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0	1712.2	1710.4	1710.7
162.5°	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4	1728.4	1726.4	1726.6
165°	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4	1750.1	1747.7	1748.0
167.5°	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8	1764.8
170°	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3	1774.3
172.5°	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5	1783.2	1780.7	1780.5
175°	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1	1791.1	1789.0	1788.7
177.5°	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0	1794.1	1792.2	1792.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	15.0	14.4	12.8	11.1	10.0	8.6	7.9	6.9	6.9	7.5	7.8
90°	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3	4.3	7.2	10.3
92.5°	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8	24.0	23.1	22.3
95°	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3	69.2	57.1	44.9
97.5°	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5	158.0	152.6	147.0
100°	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3	231.2	237.1	243.1
102.5°	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7	300.0	304.3	308.4
105°	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3	400.6	403.8	407.1
107.5°	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4	507.0	509.6	512.3
110°	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9	578.3	580.6	583.0



TEST NUMBER: P332144-940

CATALOG NUMBER: S123DIW-S560D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2	646.3	648.5	650.6
115°	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2	747.0	748.8	750.6
117.5°	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0	845.3	847.4	849.6
120°	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8	906.5	909.2	911.9
122.5°	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7	967.9	970.1	972.2
125°	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4	1052.8	1055.3	1057.6
127.5°	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6	1135.0	1137.4	1139.7
130°	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7	1186.2	1188.6	1190.9
132.5°	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9	1235.2	1237.6	1239.9
135°	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8	1309.6	1311.3	1313.1
137.5°	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7	1374.0	1376.3	1378.5
140°	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4	1416.2	1418.0	1419.8
142.5°	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8	1455.6	1457.4	1459.2
145°	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0	1511.1	1513.2	1515.3
147.5°	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0	1562.5	1563.8	1565.1
150°	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0	1593.9	1594.8	1595.7
152.5°	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8	1622.3	1622.6	1623.1
155°	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3	1661.8	1661.2	1660.6
157.5°	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8	1693.8	1693.7	1693.6
160°	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1	1712.7	1712.4	1712.2
162.5°	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2	1730.4	1729.7	1728.8
165°	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0	1752.1	1751.2	1750.3
167.5°	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0	1768.9	1767.7	1766.6
170°	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7	1778.5	1777.3	1776.1
172.5°	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1	1784.7	1783.2	1781.8
175°	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3	1792.9	1791.4	1789.9
177.5°	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4	1795.3	1794.1	1793.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332144-940

CATALOG NUMBER: S123DIW-S560D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	8.1	9.1	9.5	10.6	11.1	12.1	12.4	12.0	12.3	13.4	12.5
90°	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3	35.6	36.7	37.6
92.5°	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9	39.9	41.7	42.8
95°	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5	47.5	49.6	50.6
97.5°	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7	50.0	52.4	53.8
100°	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7	51.1	53.5	54.8
102.5°	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0	65.7	58.3	54.9
105°	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1	134.6	82.2	56.3
107.5°	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2	419.7	381.3	342.3
110°	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7	571.9	562.1	536.0



TEST NUMBER: P332144-940

CATALOG NUMBER: S123DIW-S560D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8	669.0	669.1	664.8
115°	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2	774.1	777.0	779.1
117.5°	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8	866.1	868.5	869.9
120°	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6	926.9	929.3	930.5
122.5°	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9	985.6	987.3	988.2
125°	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6	1068.3	1068.8	1069.4
127.5°	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6	1152.5	1153.4	1153.6
130°	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1	1203.4	1204.5	1204.8
132.5°	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2	1251.3	1252.5	1252.7
135°	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6
137.5°	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7	1389.1	1390.5	1390.9
140°	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8	1429.9	1431.1	1431.5
142.5°	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8	1468.7	1469.6	1469.7
145°	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2	1522.9	1523.4	1523.8
147.5°	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0	1571.6	1572.3	1571.8
150°	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9	1601.5	1602.0	1602.0
152.5°	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5	1628.5	1629.6	1629.4
155°	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0	1665.4	1667.0	1666.8
157.5°	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8	1697.5	1699.3	1699.1
160°	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0	1715.7	1717.4	1717.3
162.5°	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4	1732.4	1734.4	1734.5
165°	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4	1754.8	1757.2	1757.3
167.5°	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2
170°	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9
172.5°	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5	1787.9	1790.2	1790.1
175°	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1	1795.2	1797.3	1797.2
177.5°	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0	1797.9	1799.8	1799.6
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332144-940

CATALOG NUMBER: S123DIW-S560D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	12.6	12.7	12.5	12.4	12.5	12.7	12.6	12.5	13.4	12.3	12.0
90°	38.3	38.8	39.4	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3
92.5°	43.2	43.5	43.9	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9
95°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5
97.5°	54.0	54.3	54.7	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7
100°	55.1	55.4	55.7	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7
102.5°	55.5	56.0	56.5	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0
105°	56.9	57.5	58.1	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1
107.5°	302.8	263.2	223.7	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2
110°	493.7	451.3	408.9	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7



TEST NUMBER: P332144-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	655.8	646.8	637.9	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8
115°	780.3	781.5	782.7	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2
117.5°	870.0	870.3	870.6	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8
120°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6
122.5°	988.5	988.6	988.9	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9
125°	1070.1	1070.6	1071.2	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6
127.5°	1153.1	1152.4	1151.8	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6
130°	1204.3	1203.6	1203.0	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1
132.5°	1251.9	1251.1	1250.2	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2
135°	1323.7	1322.9	1322.0	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9
137.5°	1390.4	1389.7	1389.1	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7
140°	1430.8	1430.3	1429.7	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8
142.5°	1468.9	1468.0	1467.2	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2
147.5°	1570.5	1569.1	1567.7	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0
150°	1601.1	1600.2	1599.3	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9
152.5°	1628.1	1626.7	1625.3	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5
155°	1665.0	1663.2	1661.4	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0
157.5°	1696.7	1694.4	1692.1	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8
160°	1715.2	1713.2	1711.1	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0
162.5°	1732.7	1730.8	1729.0	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4
165°	1755.2	1753.2	1751.1	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4
167.5°	1771.8	1769.5	1767.1	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5
170°	1781.5	1779.1	1776.7	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1
172.5°	1787.5	1784.9	1782.3	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5
175°	1794.7	1792.4	1790.0	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1
177.5°	1797.2	1794.8	1792.4	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	12.4	12.1	11.1	10.6	9.5	9.1	8.1	7.8	7.5	6.9	6.9
90°	33.2	32.0	28.2	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3
92.5°	36.0	34.2	31.2	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8
95°	43.4	41.3	38.1	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3
97.5°	45.3	42.9	64.3	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5
100°	46.4	44.0	90.2	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3
102.5°	80.3	87.7	138.2	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7
105°	239.5	291.9	318.6	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3
107.5°	496.7	535.1	530.9	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4
110°	591.5	601.2	598.0	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	668.6	668.4	665.1	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2
115°	768.1	765.2	762.5	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2
117.5°	861.4	859.1	857.6	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0
120°	922.2	919.8	918.9	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8
122.5°	982.3	980.6	979.5	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7
125°	1067.1	1066.5	1065.3	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4
127.5°	1150.6	1149.7	1148.3	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6
130°	1201.0	1199.8	1198.6	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7
132.5°	1248.9	1247.8	1246.8	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9
135°	1322.0	1321.1	1319.9	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8
137.5°	1386.3	1384.8	1384.2	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7
140°	1427.6	1426.4	1425.5	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4
142.5°	1466.8	1465.9	1465.0	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8
145°	1521.6	1521.1	1520.5	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0
147.5°	1570.5	1569.9	1569.2	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0
150°	1600.3	1599.7	1599.1	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0
152.5°	1626.4	1625.3	1625.0	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8
155°	1662.5	1661.0	1660.7	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3
157.5°	1694.0	1692.2	1692.6	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8
160°	1712.2	1710.4	1710.7	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1
162.5°	1728.4	1726.4	1726.6	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2
165°	1750.1	1747.7	1748.0	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0
167.5°	1767.1	1764.8	1764.8	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0
170°	1776.7	1774.3	1774.3	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7
172.5°	1783.2	1780.7	1780.5	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1
175°	1791.1	1789.0	1788.7	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3
177.5°	1794.1	1792.2	1792.0	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.9	8.6	10.0	11.1	12.8	14.4	15.0	15.2	15.7	15.7	15.6
90°	4.3	7.2	10.3	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3
92.5°	24.0	23.1	22.3	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9
95°	69.2	57.1	44.9	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5
97.5°	158.0	152.6	147.0	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7
100°	231.2	237.1	243.1	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7
102.5°	300.0	304.3	308.4	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0
105°	400.6	403.8	407.1	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1
107.5°	507.0	509.6	512.3	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2
110°	578.3	580.6	583.0	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	646.3	648.5	650.6	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8
115°	747.0	748.8	750.6	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2
117.5°	845.3	847.4	849.6	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8
120°	906.5	909.2	911.9	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6
122.5°	967.9	970.1	972.2	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9
125°	1052.8	1055.3	1057.6	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6
127.5°	1135.0	1137.4	1139.7	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6
130°	1186.2	1188.6	1190.9	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1
132.5°	1235.2	1237.6	1239.9	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2
135°	1309.6	1311.3	1313.1	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9
137.5°	1374.0	1376.3	1378.5	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7
140°	1416.2	1418.0	1419.8	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8
142.5°	1455.6	1457.4	1459.2	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8
145°	1511.1	1513.2	1515.3	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2
147.5°	1562.5	1563.8	1565.1	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0
150°	1593.9	1594.8	1595.7	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9
152.5°	1622.3	1622.6	1623.1	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5
155°	1661.8	1661.2	1660.6	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0
157.5°	1693.8	1693.7	1693.6	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8
160°	1712.7	1712.4	1712.2	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0
162.5°	1730.4	1729.7	1728.8	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4
165°	1752.1	1751.2	1750.3	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4
167.5°	1768.9	1767.7	1766.6	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5
170°	1778.5	1777.3	1776.1	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1
172.5°	1784.7	1783.2	1781.8	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5
175°	1792.9	1791.4	1789.9	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1
177.5°	1795.3	1794.1	1793.0	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	15.6	15.5	15.4	15.9	15.7	15.5	16.2
90°	35.6	36.7	37.6	38.3	38.8	39.4	39.9
92.5°	39.9	41.7	42.8	43.2	43.5	43.9	44.2
95°	47.5	49.6	50.6	50.6	50.6	50.6	50.6
97.5°	50.0	52.4	53.8	54.0	54.3	54.7	54.9
100°	51.1	53.5	54.8	55.1	55.4	55.7	56.0
102.5°	65.7	58.3	54.9	55.5	56.0	56.5	57.1
105°	134.6	82.2	56.3	56.9	57.5	58.1	58.7
107.5°	419.7	381.3	342.3	302.8	263.2	223.7	184.2
110°	571.9	562.1	536.0	493.7	451.3	408.9	366.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	669.0	669.1	664.8	655.8	646.8	637.9	628.9
115°	774.1	777.0	779.1	780.3	781.5	782.7	783.9
117.5°	866.1	868.5	869.9	870.0	870.3	870.6	870.8
120°	926.9	929.3	930.5	930.5	930.5	930.5	930.5
122.5°	985.6	987.3	988.2	988.5	988.6	988.9	989.2
125°	1068.3	1068.8	1069.4	1070.1	1070.6	1071.2	1071.8
127.5°	1152.5	1153.4	1153.6	1153.1	1152.4	1151.8	1151.3
130°	1203.4	1204.5	1204.8	1204.3	1203.6	1203.0	1202.5
132.5°	1251.3	1252.5	1252.7	1251.9	1251.1	1250.2	1249.4
135°	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1
137.5°	1389.1	1390.5	1390.9	1390.4	1389.7	1389.1	1388.6
140°	1429.9	1431.1	1431.5	1430.8	1430.3	1429.7	1429.1
142.5°	1468.7	1469.6	1469.7	1468.9	1468.0	1467.2	1466.4
145°	1522.9	1523.4	1523.8	1523.8	1523.8	1523.8	1523.8
147.5°	1571.6	1572.3	1571.8	1570.5	1569.1	1567.7	1566.4
150°	1601.5	1602.0	1602.0	1601.1	1600.2	1599.3	1598.4
152.5°	1628.5	1629.6	1629.4	1628.1	1626.7	1625.3	1624.0
155°	1665.4	1667.0	1666.8	1665.0	1663.2	1661.4	1659.7
157.5°	1697.5	1699.3	1699.1	1696.7	1694.4	1692.1	1689.8
160°	1715.7	1717.4	1717.3	1715.2	1713.2	1711.1	1709.1
162.5°	1732.4	1734.4	1734.5	1732.7	1730.8	1729.0	1727.2
165°	1754.8	1757.2	1757.3	1755.2	1753.2	1751.1	1749.0
167.5°	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8
170°	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3
172.5°	1787.9	1790.2	1790.1	1787.5	1784.9	1782.3	1779.7
175°	1795.2	1797.3	1797.2	1794.7	1792.4	1790.0	1787.7
177.5°	1797.9	1799.8	1799.6	1797.2	1794.8	1792.4	1790.1
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3

(END OF REPORT)