

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: P331833-940

Luminaire Tested: **S122RDIW-S865D970U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331833-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D970U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6396.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

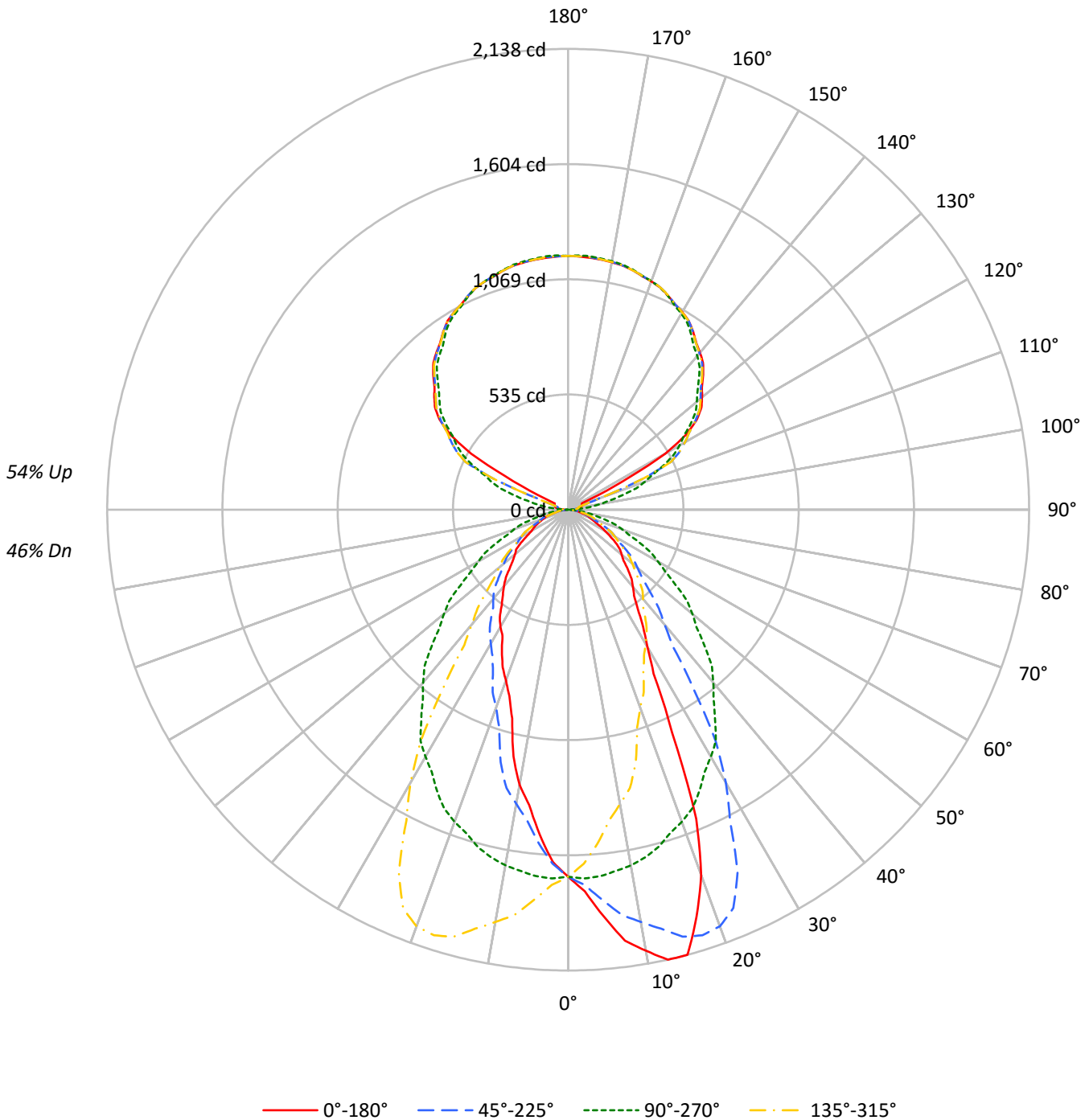
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	98	94	90	87	89	86	83	80	72	70	68	59	58	56	47	47	46	40
2	89	83	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	44	42	39	36	35	30
4	76	65	58	52	69	61	54	49	51	47	43	43	39	37	35	33	31	27
5	70	59	51	45	64	54	48	43	46	41	37	39	35	32	32	29	27	24
6	64	53	45	40	59	49	42	38	42	37	33	36	32	29	29	27	24	22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22	19
8	56	44	37	31	51	41	34	30	35	30	27	30	26	23	25	22	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	20	18	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.5
10°-20°	449.8	7.0
20°-30°	579.6	9.1
30°-40°	550.8	8.6
40°-50°	471.8	7.4
50°-60°	359.3	5.6
60°-70°	227.1	3.6
70°-80°	113.4	1.8
80°-90°	32.4	0.5
90°-100°	39.3	0.6
100°-110°	144.0	2.3
110°-120°	385.0	6.0
120°-130°	635.6	9.9
130°-140°	675.9	10.6
140°-150°	628.3	9.8
150°-160°	505.1	7.9
160°-170°	325.5	5.1
170°-180°	112.0	1.8
0°-30°	1190.8	18.6
0°-40°	1741.6	27.2
0°-60°	2572.7	40.2
0°-90°	2945.7	46.1
90°-120°	568.4	8.9
90°-150°	2508.2	39.2
90°-180°	3451.0	54.0
0°-180°	6396.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	23
90°	23	1	23	1	23	11
95°	37	55	37	55	37	34
105°	65	259	65	259	65	67
115°	70	490	70	490	70	175
125°	728	693	728	693	728	630
135°	885	857	885	857	885	682
145°	1010	994	1010	994	1010	631
155°	1096	1095	1096	1095	1096	506
165°	1151	1154	1151	1154	1151	325
175°	1173	1180	1173	1180	1173	112
180°	1178	1178	1178	1178	1178	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	12.2	12.6	12.5	12.4	12.3	12.2	12.0	12.3	11.7	11.9	11.1
90°	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9	18.0	17.0	15.5
92.5°	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8	20.2	19.8	19.0
95°	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1	34.2	33.3	31.9
97.5°	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0	45.2	44.5	41.4
100°	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6	50.1	48.6	45.4
102.5°	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9	51.9	49.9	46.9
105°	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2	54.0	52.0	49.7
107.5°	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5	70.6	72.8	70.6
110°	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2	130.2	149.1	203.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9	307.0	376.1	389.6
115°	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4	438.0	525.8	521.0
117.5°	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8	561.1	582.3	579.1
120°	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1	626.9	624.6	621.2
122.5°	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5	666.1	664.8	661.0
125°	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6	721.3	720.0	716.4
127.5°	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6	771.7	769.7	767.0
130°	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9	803.9	801.8	799.7
132.5°	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4	835.6	833.8	831.7
135°	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3	880.4	878.5	876.7
137.5°	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9	922.1	920.2	918.3
140°	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9	949.2	947.5	945.4
142.5°	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8	974.3	972.7	970.4
145°	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7	1009.3	1008.0	1004.8
147.5°	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0	1040.0	1039.0	1035.8
150°	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7	1058.5	1057.4	1054.4
152.5°	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7	1075.6	1074.4	1071.6
155°	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7	1098.6	1097.4	1095.2
157.5°	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1	1117.8	1116.5	1114.9
160°	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4	1129.3	1128.1	1127.0
162.5°	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9	1139.6	1138.4	1137.4
165°	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1	1150.6
167.5°	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5	1163.1	1161.9	1161.4
170°	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0	1168.7	1167.3	1167.0
172.5°	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0	1172.8	1171.4	1171.0
175°	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5	1177.1	1175.8	1175.5
177.5°	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0	1177.9	1176.9	1176.7
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	10.9	11.1	10.7	9.9	9.9	10.0	11.9	13.9	12.4	11.4	10.9
90°	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9	2.9	5.0	7.1
92.5°	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2	17.0	16.9	16.7
95°	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4	49.1	42.9	36.6
97.5°	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9	92.3	74.7	57.1
100°	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8	124.8	98.9	73.0
102.5°	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8	190.3	184.9	179.3
105°	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0	264.7	270.4	276.1
107.5°	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1	335.7	340.3	344.8
110°	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5	381.5	385.4	389.4



TEST NUMBER: P331833-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1	424.6	428.1	431.7
115°	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9	493.1	496.4	499.6
117.5°	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4	555.1	558.7	562.2
120°	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5	599.3	602.1	604.9
122.5°	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6	637.6	640.6	643.5
125°	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7	695.2	697.7	700.1
127.5°	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4	748.1	750.8	753.6
130°	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8	781.9	784.9	787.8
132.5°	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9	815.5	818.1	820.6
135°	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2	860.2	863.3	866.3
137.5°	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0	904.1	906.2	908.4
140°	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3	932.8	934.3	935.9
142.5°	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8	957.2	958.6	959.9
145°	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3	994.2	994.0	993.8
147.5°	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0	1027.2	1026.4	1025.7
150°	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7	1048.4	1047.0	1045.8
152.5°	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2	1066.7	1065.1	1063.7
155°	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9	1093.1	1091.5	1089.8
157.5°	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9	1114.5	1112.9	1111.5
160°	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1127.0	1125.9	1124.7
162.5°	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1	1137.9	1136.8	1135.6
165°	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7	1152.5	1151.4	1150.3
167.5°	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6	1163.4	1162.3	1161.2
170°	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7	1169.6	1168.5	1167.3
172.5°	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8	1173.7	1172.5	1171.4
175°	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1	1178.8	1177.4	1176.2
177.5°	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0	1179.9	1178.8	1177.8
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331833-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	10.8	10.7	10.1	10.3	10.7	10.5	10.7	10.4	10.6	10.8	10.4
90°	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9	19.9	20.9	21.5
92.5°	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8	21.2	21.8	22.1
95°	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1	36.1	37.0	37.4
97.5°	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0	46.7	47.5	48.0
100°	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6	53.1	54.7	55.6
102.5°	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9	55.8	57.8	59.0
105°	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2	58.2	60.3	61.7
107.5°	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5	66.4	64.3	63.6
110°	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2	92.3	73.4	64.3



TEST NUMBER: P331833-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9	168.9	99.8	65.5
115°	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4	262.7	175.0	124.4
117.5°	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8	518.7	497.5	464.5
120°	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1	631.3	633.6	622.0
122.5°	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5	668.9	670.2	668.4
125°	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6	724.0	725.3	726.2
127.5°	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6	775.5	777.5	778.5
130°	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9	808.1	810.1	811.1
132.5°	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4	839.2	841.0	841.8
135°	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3	884.1	886.0	886.8
137.5°	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9	925.8	927.6	928.3
140°	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9	952.6	954.3	954.7
142.5°	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8	977.4	978.9	979.2
145°	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7	1012.0	1013.3	1013.5
147.5°	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0	1042.0	1042.9	1043.0
150°	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7	1060.8	1061.9	1062.0
152.5°	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7	1077.8	1079.0	1079.0
155°	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7	1100.8	1102.0	1101.8
157.5°	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1	1120.4	1121.7	1121.6
160°	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4	1131.5	1132.7	1132.6
162.5°	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9	1142.2	1143.5	1143.4
165°	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5
167.5°	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5	1165.8	1167.2	1167.0
170°	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0	1171.3	1172.6	1172.4
172.5°	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0	1175.4	1176.7	1176.5
175°	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5	1179.8	1181.2	1180.9
177.5°	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0	1180.0	1181.1	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331833-940

CATALOG NUMBER: S122RDIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	10.5	10.2	10.7	10.3	10.7	10.2	10.5	10.4	10.8	10.6	10.4
90°	21.8	22.2	22.6	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9
92.5°	22.3	22.6	22.7	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8
95°	37.2	37.0	36.8	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1
97.5°	48.2	48.4	48.7	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0
100°	55.9	56.4	56.7	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6
102.5°	59.6	60.1	60.6	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9
105°	62.5	63.2	64.0	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2
107.5°	64.4	65.1	65.9	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5
110°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.2	66.8	67.4	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9
115°	110.8	97.1	83.5	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4
117.5°	419.6	374.9	330.1	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8
120°	596.5	570.9	545.3	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1
122.5°	663.4	658.5	653.5	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5
125°	726.8	727.4	727.9	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6
127.5°	778.6	778.7	778.8	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6
130°	810.8	810.7	810.5	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9
132.5°	841.5	841.3	841.2	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4
135°	886.4	886.0	885.6	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3
137.5°	927.6	926.9	926.3	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9
140°	953.8	952.8	951.8	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9
142.5°	978.3	977.3	976.4	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8
145°	1012.5	1011.6	1010.7	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7
147.5°	1042.2	1041.4	1040.6	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0
150°	1061.1	1060.2	1059.2	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7
152.5°	1077.7	1076.5	1075.2	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7
155°	1100.3	1098.8	1097.3	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7
157.5°	1120.1	1118.7	1117.1	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1
160°	1131.2	1129.9	1128.6	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4
162.5°	1141.7	1140.1	1138.4	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9
165°	1155.1	1153.8	1152.4	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8
167.5°	1165.3	1163.6	1161.9	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5
170°	1170.7	1169.0	1167.3	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0
172.5°	1174.8	1173.1	1171.4	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0
175°	1178.9	1177.1	1175.2	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5
177.5°	1179.6	1178.2	1176.9	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	10.7	10.5	10.7	10.3	10.1	10.7	10.8	10.9	11.4	12.4	13.9
90°	18.0	17.0	15.5	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9
92.5°	20.2	19.8	19.0	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2
95°	34.2	33.3	31.9	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4
97.5°	45.2	44.5	41.4	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9
100°	50.1	48.6	45.4	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8
102.5°	51.9	49.9	76.9	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8
105°	54.0	52.0	103.7	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0
107.5°	70.6	72.8	134.7	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1
110°	130.2	149.1	203.8	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	307.0	376.1	389.6	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1
115°	438.0	525.8	521.0	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9
117.5°	561.1	582.3	579.1	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4
120°	626.9	624.6	621.2	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5
122.5°	666.1	664.8	661.0	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6
125°	721.3	720.0	716.4	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7
127.5°	771.7	769.7	767.0	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4
130°	803.9	801.8	799.7	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8
132.5°	835.6	833.8	831.7	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9
135°	880.4	878.5	876.7	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2
137.5°	922.1	920.2	918.3	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0
140°	949.2	947.5	945.4	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3
142.5°	974.3	972.7	970.4	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8
145°	1009.3	1008.0	1004.8	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3
147.5°	1040.0	1039.0	1035.8	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0
150°	1058.5	1057.4	1054.4	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7
152.5°	1075.6	1074.4	1071.6	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2
155°	1098.6	1097.4	1095.2	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9
157.5°	1117.8	1116.5	1114.9	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9
160°	1129.3	1128.1	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1
162.5°	1139.6	1138.4	1137.4	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1
165°	1152.4	1151.1	1150.6	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7
167.5°	1163.1	1161.9	1161.4	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6
170°	1168.7	1167.3	1167.0	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7
172.5°	1172.8	1171.4	1171.0	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8
175°	1177.1	1175.8	1175.5	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1
177.5°	1177.9	1176.9	1176.7	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	11.9	10.0	9.9	9.9	10.7	11.1	10.9	11.1	11.9	11.7	12.3
90°	2.9	5.0	7.1	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9
92.5°	17.0	16.9	16.7	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8
95°	49.1	42.9	36.6	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1
97.5°	92.3	74.7	57.1	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0
100°	124.8	98.9	73.0	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6
102.5°	190.3	184.9	179.3	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9
105°	264.7	270.4	276.1	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2
107.5°	335.7	340.3	344.8	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5
110°	381.5	385.4	389.4	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.6	428.1	431.7	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9
115°	493.1	496.4	499.6	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4
117.5°	555.1	558.7	562.2	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8
120°	599.3	602.1	604.9	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1
122.5°	637.6	640.6	643.5	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5
125°	695.2	697.7	700.1	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6
127.5°	748.1	750.8	753.6	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6
130°	781.9	784.9	787.8	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9
132.5°	815.5	818.1	820.6	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4
135°	860.2	863.3	866.3	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3
137.5°	904.1	906.2	908.4	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9
140°	932.8	934.3	935.9	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9
142.5°	957.2	958.6	959.9	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8
145°	994.2	994.0	993.8	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7
147.5°	1027.2	1026.4	1025.7	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0
150°	1048.4	1047.0	1045.8	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7
152.5°	1066.7	1065.1	1063.7	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7
155°	1093.1	1091.5	1089.8	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7
157.5°	1114.5	1112.9	1111.5	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1
160°	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4
162.5°	1137.9	1136.8	1135.6	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9
165°	1152.5	1151.4	1150.3	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8
167.5°	1163.4	1162.3	1161.2	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5
170°	1169.6	1168.5	1167.3	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0
172.5°	1173.7	1172.5	1171.4	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0
175°	1178.8	1177.4	1176.2	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5
177.5°	1179.9	1178.8	1177.8	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	12.0	12.2	12.3	12.4	12.5	12.6	12.2
90°	19.9	20.9	21.5	21.8	22.2	22.6	23.0
92.5°	21.2	21.8	22.1	22.3	22.6	22.7	23.0
95°	36.1	37.0	37.4	37.2	37.0	36.8	36.6
97.5°	46.7	47.5	48.0	48.2	48.4	48.7	48.9
100°	53.1	54.7	55.6	55.9	56.4	56.7	57.1
102.5°	55.8	57.8	59.0	59.6	60.1	60.6	61.2
105°	58.2	60.3	61.7	62.5	63.2	64.0	64.7
107.5°	66.4	64.3	63.6	64.4	65.1	65.9	66.6
110°	92.3	73.4	64.3	65.0	65.8	66.5	67.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.9	99.8	65.5	66.2	66.8	67.4	68.0
115°	262.7	175.0	124.4	110.8	97.1	83.5	69.9
117.5°	518.7	497.5	464.5	419.6	374.9	330.1	285.3
120°	631.3	633.6	622.0	596.5	570.9	545.3	519.8
122.5°	668.9	670.2	668.4	663.4	658.5	653.5	648.6
125°	724.0	725.3	726.2	726.8	727.4	727.9	728.5
127.5°	775.5	777.5	778.5	778.6	778.7	778.8	778.9
130°	808.1	810.1	811.1	810.8	810.7	810.5	810.3
132.5°	839.2	841.0	841.8	841.5	841.3	841.2	841.0
135°	884.1	886.0	886.8	886.4	886.0	885.6	885.3
137.5°	925.8	927.6	928.3	927.6	926.9	926.3	925.7
140°	952.6	954.3	954.7	953.8	952.8	951.8	950.9
142.5°	977.4	978.9	979.2	978.3	977.3	976.4	975.4
145°	1012.0	1013.3	1013.5	1012.5	1011.6	1010.7	1009.7
147.5°	1042.0	1042.9	1043.0	1042.2	1041.4	1040.6	1039.8
150°	1060.8	1061.9	1062.0	1061.1	1060.2	1059.2	1058.3
152.5°	1077.8	1079.0	1079.0	1077.7	1076.5	1075.2	1074.0
155°	1100.8	1102.0	1101.8	1100.3	1098.8	1097.3	1095.7
157.5°	1120.4	1121.7	1121.6	1120.1	1118.7	1117.1	1115.7
160°	1131.5	1132.7	1132.6	1131.2	1129.9	1128.6	1127.3
162.5°	1142.2	1143.5	1143.4	1141.7	1140.1	1138.4	1136.8
165°	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1
167.5°	1165.8	1167.2	1167.0	1165.3	1163.6	1161.9	1160.2
170°	1171.3	1172.6	1172.4	1170.7	1169.0	1167.3	1165.6
172.5°	1175.4	1176.7	1176.5	1174.8	1173.1	1171.4	1169.7
175°	1179.8	1181.2	1180.9	1178.9	1177.1	1175.2	1173.3
177.5°	1180.0	1181.1	1181.0	1179.6	1178.2	1176.9	1175.5
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5

(END OF REPORT)