

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: P331730-940

Luminaire Tested: **SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331730-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6379.8 lumens
Efficiency: N/A
Efficacy: 97.6 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

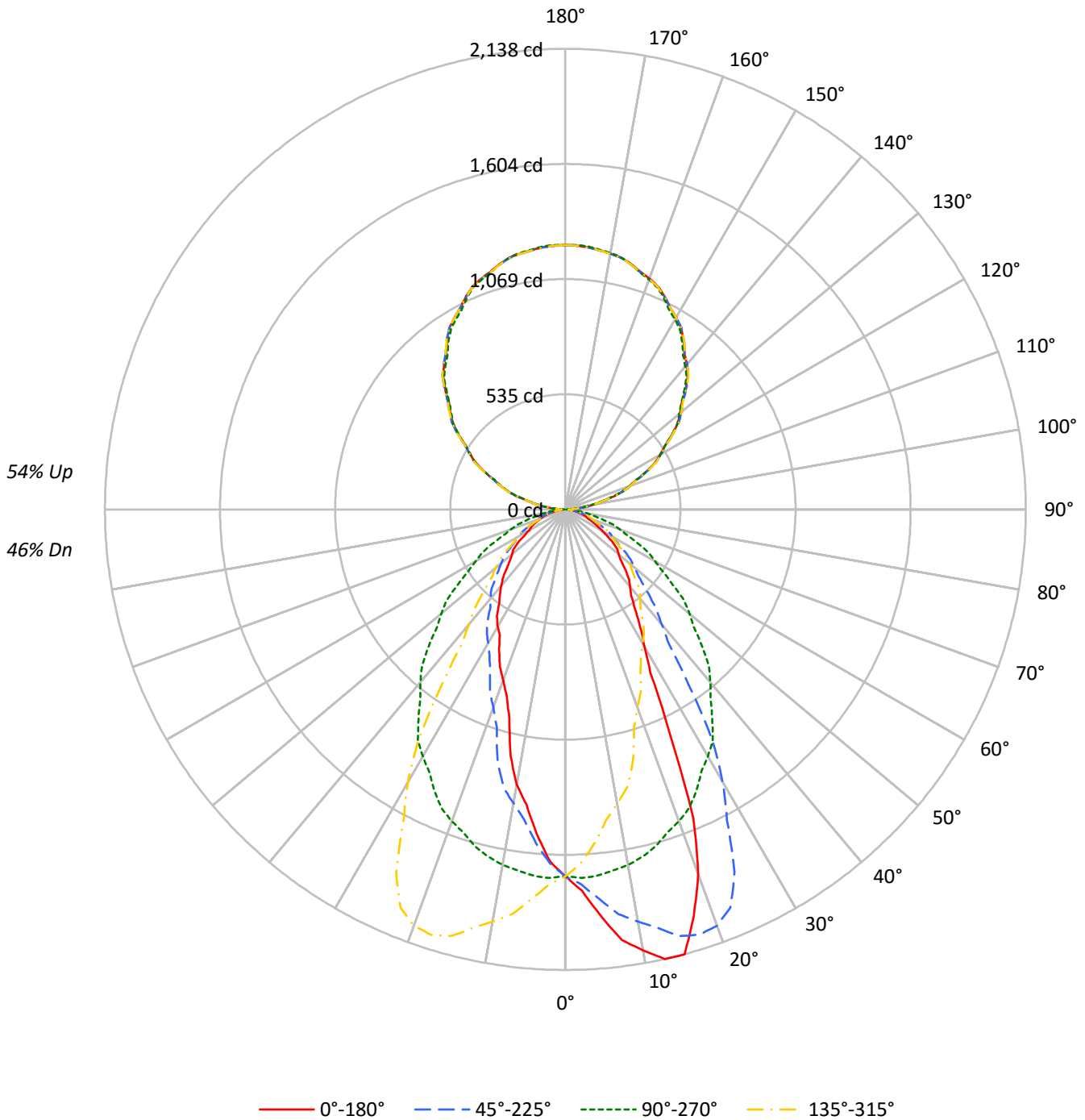
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	94	90	87	90	86	83	80	72	70	68	59	58	57	48	47	46	40
2	89	83	77	72	82	76	71	67	64	61	58	53	51	48	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	45	42	39	37	35	31
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	20
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	21	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°	34.4	0.5
90°-100°	77.8	1.2
100°-110°	241.6	3.8
110°-120°	412.9	6.5
120°-130°	543.0	8.5
130°-140°	609.4	9.6
140°-150°	597.6	9.4
150°-160°	501.2	7.9
160°-170°	332.4	5.2
170°-180°	116.2	1.8
0°-30°	1190.8	18.7
0°-40°	1741.6	27.3
0°-60°	2572.7	40.3
0°-90°	2947.7	46.2
90°-120°	732.3	11.5
90°-150°	2482.3	38.9
90°-180°	3432.0	53.8
0°-180°	6379.8	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	24
90°	35	1	35	1	35	16
95°	64	54	64	54	64	72
105°	230	223	230	223	230	242
115°	414	414	414	414	414	409
125°	605	603	605	603	605	539
135°	789	780	789	780	789	608
145°	957	947	957	947	957	598
155°	1091	1082	1091	1082	1091	502
165°	1179	1178	1179	1178	1179	332
175°	1221	1225	1221	1225	1221	116
180°	1227	1227	1227	1227	1227	



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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°	14.6	15.1	15.0	15.0	14.9	14.9	15.0	15.6	15.2	15.8	14.3
90°	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3	35.8	36.3	31.2
92.5°	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1	33.0	32.9	31.7
95°	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3	66.3	66.3	65.8
97.5°	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5	111.5	111.5	110.6
100°	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9	142.9	142.9	142.2
102.5°	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3	177.1	176.9	176.0
105°	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8	228.4	227.8	227.4
107.5°	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4	284.2	284.0	284.0
110°	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2	322.2	322.2	322.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0	360.5	361.1	361.2
115°	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0	418.2	418.5	418.9
117.5°	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1	474.7	475.2	476.5
120°	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7	511.7	511.7	513.5
122.5°	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4	550.9	551.4	552.8
125°	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7	608.3	609.0	609.8
127.5°	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3	664.1	664.9	665.8
130°	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3	701.8	702.3	702.8
132.5°	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3	739.4	740.4	740.3
135°	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0	793.2	793.4	793.0
137.5°	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3	845.4	845.6	845.0
140°	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4	880.4	880.4	879.3
142.5°	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3	912.1	912.0	911.2
145°	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6	960.4	960.2	958.8
147.5°	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1	1002.6	1002.0	1001.1
150°	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6	1027.6
152.5°	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1	1054.0
155°	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9	1089.8	1088.6	1088.0
157.5°	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4	1120.9	1119.3	1118.8
160°	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1	1139.7	1138.4	1138.1
162.5°	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1	1156.5	1154.9	1154.7
165°	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9	1178.3	1176.7	1176.7
167.5°	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9	1196.3	1194.7	1194.7
170°	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8	1206.2	1204.6	1204.9
172.5°	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3	1213.7	1212.1	1212.3
175°	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4	1221.8	1220.1	1220.7
177.5°	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9	1225.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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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°	13.3	12.8	11.7	10.4	10.3	10.3	12.1	13.9	12.6	11.7	11.3
90°	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1	3.8	6.6	9.4
92.5°	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5	20.4	22.5	24.5
95°	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9	56.2	58.5	60.7
97.5°	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4	100.4	102.5	104.5
100°	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5	133.4	135.3	137.1
102.5°	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4	167.8	169.3	170.8
105°	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7	223.4	224.1	224.8
107.5°	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5	280.4	281.5	282.5
110°	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9	317.3	318.7	320.0



TEST NUMBER: P331730-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7	357.0	358.5	359.8
115°	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3	415.7	417.1	418.5
117.5°	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7	474.6	476.4	478.2
120°	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	513.5	515.4	517.2
122.5°	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3	549.6	551.7	553.9
125°	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8	604.9	607.0	609.0
127.5°	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9	659.5	662.2	664.8
130°	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9	693.8	696.9	699.8
132.5°	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0	731.5	733.9	736.3
135°	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0	782.5	785.1	787.6
137.5°	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6	835.7	837.8	839.8
140°	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9	868.0	870.0	872.2
142.5°	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1	901.2	903.2	905.3
145°	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7	948.3	949.9	951.5
147.5°	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2	991.1	993.0	995.0
150°	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2	1019.6	1020.9	1022.3
152.5°	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8	1045.3	1046.6	1048.0
155°	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4	1083.1	1083.8	1084.5
157.5°	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4	1115.8	1116.2	1116.7
160°	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2	1135.7	1136.1	1136.6
162.5°	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4	1153.5	1153.6	1153.7
165°	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7	1177.5	1177.2	1177.0
167.5°	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0	1197.3	1196.6	1196.0
170°	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8	1208.1	1207.4	1206.7
172.5°	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2	1215.6	1214.9	1214.2
175°	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4	1224.7	1224.0	1223.2
177.5°	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0	1228.5	1228.0	1227.4
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331730-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1

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°	11.4	11.7	11.8	12.8	13.8	14.4	14.3	13.7	13.6	13.5	13.0
90°	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3	34.9	34.4	34.3
92.5°	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1	33.2	33.3	33.3
95°	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3	66.3	66.3	66.1
97.5°	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5	111.5	111.5	111.5
100°	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9	142.9	142.9	142.9
102.5°	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3	177.5	177.6	177.6
105°	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8	229.3	229.7	230.0
107.5°	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4	284.5	284.7	284.3
110°	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	321.8



TEST NUMBER: P331730-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0	359.4	358.9	358.4
115°	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0	417.8	417.5	417.1
117.5°	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1	473.6	473.1	472.4
120°	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7	511.7	511.7	511.3
122.5°	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4	549.8	549.2	548.8
125°	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7	607.0	606.3	605.8
127.5°	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3	662.5	661.6	660.8
130°	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3	700.9	700.4	699.7
132.5°	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3	737.4	736.4	735.5
135°	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0	792.7	792.5	792.0
137.5°	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3	845.1	844.9	844.4
140°	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4	880.4	880.4	879.9
142.5°	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3	912.5	912.7	912.3
145°	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6	960.9	961.1	960.7
147.5°	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1	1003.5	1004.1	1003.9
150°	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4
152.5°	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5
155°	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9	1092.1	1093.2	1093.4
157.5°	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4	1124.0	1125.5	1125.8
160°	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1	1142.5	1143.9	1144.1
162.5°	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1	1159.6	1161.2	1161.4
165°	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9	1181.5	1183.1	1183.3
167.5°	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9	1199.5	1201.1	1201.3
170°	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8	1209.4	1211.0	1211.2
172.5°	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3	1216.9	1218.5	1218.6
175°	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4	1225.0	1226.6	1226.7
177.5°	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331730-940

CATALOG NUMBER: SA2XXRDIP-C865D1080U940-4F0-1E-UDD-A1

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°	13.0	12.7	13.1	12.8	13.1	12.7	13.0	13.0	13.5	13.6	13.7
90°	34.5	34.8	35.0	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3
92.5°	33.4	33.4	33.5	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1
95°	65.6	65.2	64.6	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3
97.5°	111.4	111.4	111.3	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5
100°	142.6	142.4	142.1	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9
102.5°	177.4	177.2	176.9	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3
105°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8
107.5°	283.3	282.2	281.2	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4
110°	321.1	320.4	319.7	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2



TEST NUMBER: P331730-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	357.8	357.3	356.9	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0
115°	416.4	415.7	415.0	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0
117.5°	471.7	471.0	470.3	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1
120°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7
122.5°	548.2	547.7	547.2	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4
125°	605.6	605.4	605.1	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7
127.5°	660.1	659.4	658.7	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3
130°	698.8	697.9	697.0	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3
132.5°	734.8	734.0	733.3	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3
135°	791.3	790.7	790.0	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0
137.5°	843.4	842.5	841.6	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3
140°	879.0	878.2	877.2	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4
142.5°	911.3	910.4	909.5	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3
145°	959.8	958.9	958.0	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6
147.5°	1003.0	1002.1	1001.2	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1
150°	1030.6	1029.9	1029.2	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9
152.5°	1057.7	1056.9	1056.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9
155°	1092.8	1092.1	1091.4	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9
157.5°	1124.6	1123.6	1122.5	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4
160°	1143.2	1142.3	1141.3	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1
162.5°	1160.3	1159.2	1158.1	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1
165°	1182.2	1181.1	1179.9	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9
167.5°	1200.2	1198.9	1197.7	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9
170°	1209.8	1208.4	1207.0	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8
172.5°	1217.3	1215.8	1214.5	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3
175°	1225.4	1224.0	1222.6	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4
177.5°	1228.2	1227.2	1226.0	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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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°	14.3	14.4	13.8	12.8	11.8	11.7	11.4	11.3	11.7	12.6	13.9
90°	35.8	36.3	31.2	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1
92.5°	33.0	32.9	31.7	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5
95°	66.3	66.3	65.8	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9
97.5°	111.5	111.5	110.6	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4
100°	142.9	142.9	142.2	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5
102.5°	177.1	176.9	176.0	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4
105°	228.4	227.8	227.4	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7
107.5°	284.2	284.0	284.0	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5
110°	322.2	322.2	322.2	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.5	361.1	361.2	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7
115°	418.2	418.5	418.9	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3
117.5°	474.7	475.2	476.5	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7
120°	511.7	511.7	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7
122.5°	550.9	551.4	552.8	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3
125°	608.3	609.0	609.8	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8
127.5°	664.1	664.9	665.8	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9
130°	701.8	702.3	702.8	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9
132.5°	739.4	740.4	740.3	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0
135°	793.2	793.4	793.0	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0
137.5°	845.4	845.6	845.0	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6
140°	880.4	880.4	879.3	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9
142.5°	912.1	912.0	911.2	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1
145°	960.4	960.2	958.8	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7
147.5°	1002.6	1002.0	1001.1	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2
150°	1029.2	1028.6	1027.6	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2
152.5°	1056.0	1055.1	1054.0	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8
155°	1089.8	1088.6	1088.0	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4
157.5°	1120.9	1119.3	1118.8	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4
160°	1139.7	1138.4	1138.1	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2
162.5°	1156.5	1154.9	1154.7	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4
165°	1178.3	1176.7	1176.7	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7
167.5°	1196.3	1194.7	1194.7	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0
170°	1206.2	1204.6	1204.9	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8
172.5°	1213.7	1212.1	1212.3	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2
175°	1221.8	1220.1	1220.7	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4
177.5°	1226.0	1224.9	1225.3	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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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°	12.1	10.3	10.3	10.4	11.7	12.8	13.3	14.3	15.8	15.2	15.6
90°	3.8	6.6	9.4	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3
92.5°	20.4	22.5	24.5	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1
95°	56.2	58.5	60.7	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3
97.5°	100.4	102.5	104.5	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5
100°	133.4	135.3	137.1	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9
102.5°	167.8	169.3	170.8	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3
105°	223.4	224.1	224.8	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8
107.5°	280.4	281.5	282.5	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4
110°	317.3	318.7	320.0	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.0	358.5	359.8	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0
115°	415.7	417.1	418.5	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0
117.5°	474.6	476.4	478.2	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1
120°	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7
122.5°	549.6	551.7	553.9	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4
125°	604.9	607.0	609.0	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7
127.5°	659.5	662.2	664.8	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3
130°	693.8	696.9	699.8	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3
132.5°	731.5	733.9	736.3	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3
135°	782.5	785.1	787.6	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0
137.5°	835.7	837.8	839.8	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3
140°	868.0	870.0	872.2	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4
142.5°	901.2	903.2	905.3	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3
145°	948.3	949.9	951.5	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6
147.5°	991.1	993.0	995.0	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1
150°	1019.6	1020.9	1022.3	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9
152.5°	1045.3	1046.6	1048.0	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9
155°	1083.1	1083.8	1084.5	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9
157.5°	1115.8	1116.2	1116.7	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4
160°	1135.7	1136.1	1136.6	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1
162.5°	1153.5	1153.6	1153.7	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1
165°	1177.5	1177.2	1177.0	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9
167.5°	1197.3	1196.6	1196.0	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9
170°	1208.1	1207.4	1206.7	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8
172.5°	1215.6	1214.9	1214.2	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3
175°	1224.7	1224.0	1223.2	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4
177.5°	1228.5	1228.0	1227.4	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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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°	15.0	14.9	14.9	15.0	15.0	15.1	14.6
90°	34.9	34.4	34.3	34.5	34.8	35.0	35.2
92.5°	33.2	33.3	33.3	33.4	33.4	33.5	33.5
95°	66.3	66.3	66.1	65.6	65.2	64.6	64.2
97.5°	111.5	111.5	111.5	111.4	111.4	111.3	111.3
100°	142.9	142.9	142.9	142.6	142.4	142.1	141.9
102.5°	177.5	177.6	177.6	177.4	177.2	176.9	176.7
105°	229.3	229.7	230.0	230.0	230.0	230.0	230.0
107.5°	284.5	284.7	284.3	283.3	282.2	281.2	280.1
110°	322.2	322.2	321.8	321.1	320.4	319.7	319.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	359.4	358.9	358.4	357.8	357.3	356.9	356.3
115°	417.8	417.5	417.1	416.4	415.7	415.0	414.3
117.5°	473.6	473.1	472.4	471.7	471.0	470.3	469.7
120°	511.7	511.7	511.3	510.7	510.0	509.3	508.5
122.5°	549.8	549.2	548.8	548.2	547.7	547.2	546.7
125°	607.0	606.3	605.8	605.6	605.4	605.1	604.9
127.5°	662.5	661.6	660.8	660.1	659.4	658.7	657.9
130°	700.9	700.4	699.7	698.8	697.9	697.0	696.1
132.5°	737.4	736.4	735.5	734.8	734.0	733.3	732.5
135°	792.7	792.5	792.0	791.3	790.7	790.0	789.3
137.5°	845.1	844.9	844.4	843.4	842.5	841.6	840.6
140°	880.4	880.4	879.9	879.0	878.2	877.2	876.3
142.5°	912.5	912.7	912.3	911.3	910.4	909.5	908.6
145°	960.9	961.1	960.7	959.8	958.9	958.0	957.1
147.5°	1003.5	1004.1	1003.9	1003.0	1002.1	1001.2	1000.4
150°	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6
152.5°	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1
155°	1092.1	1093.2	1093.4	1092.8	1092.1	1091.4	1090.7
157.5°	1124.0	1125.5	1125.8	1124.6	1123.6	1122.5	1121.3
160°	1142.5	1143.9	1144.1	1143.2	1142.3	1141.3	1140.4
162.5°	1159.6	1161.2	1161.4	1160.3	1159.2	1158.1	1157.0
165°	1181.5	1183.1	1183.3	1182.2	1181.1	1179.9	1178.8
167.5°	1199.5	1201.1	1201.3	1200.2	1198.9	1197.7	1196.6
170°	1209.4	1211.0	1211.2	1209.8	1208.4	1207.0	1205.7
172.5°	1216.9	1218.5	1218.6	1217.3	1215.8	1214.5	1213.1
175°	1225.0	1226.6	1226.7	1225.4	1224.0	1222.6	1221.2
177.5°	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

(END OF REPORT)