

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: P331834-830

Luminaire Tested: **S122RDIW-S865D970U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331834-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D970U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6278.3 lumens
Efficiency: N/A
Efficacy: 102.6 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

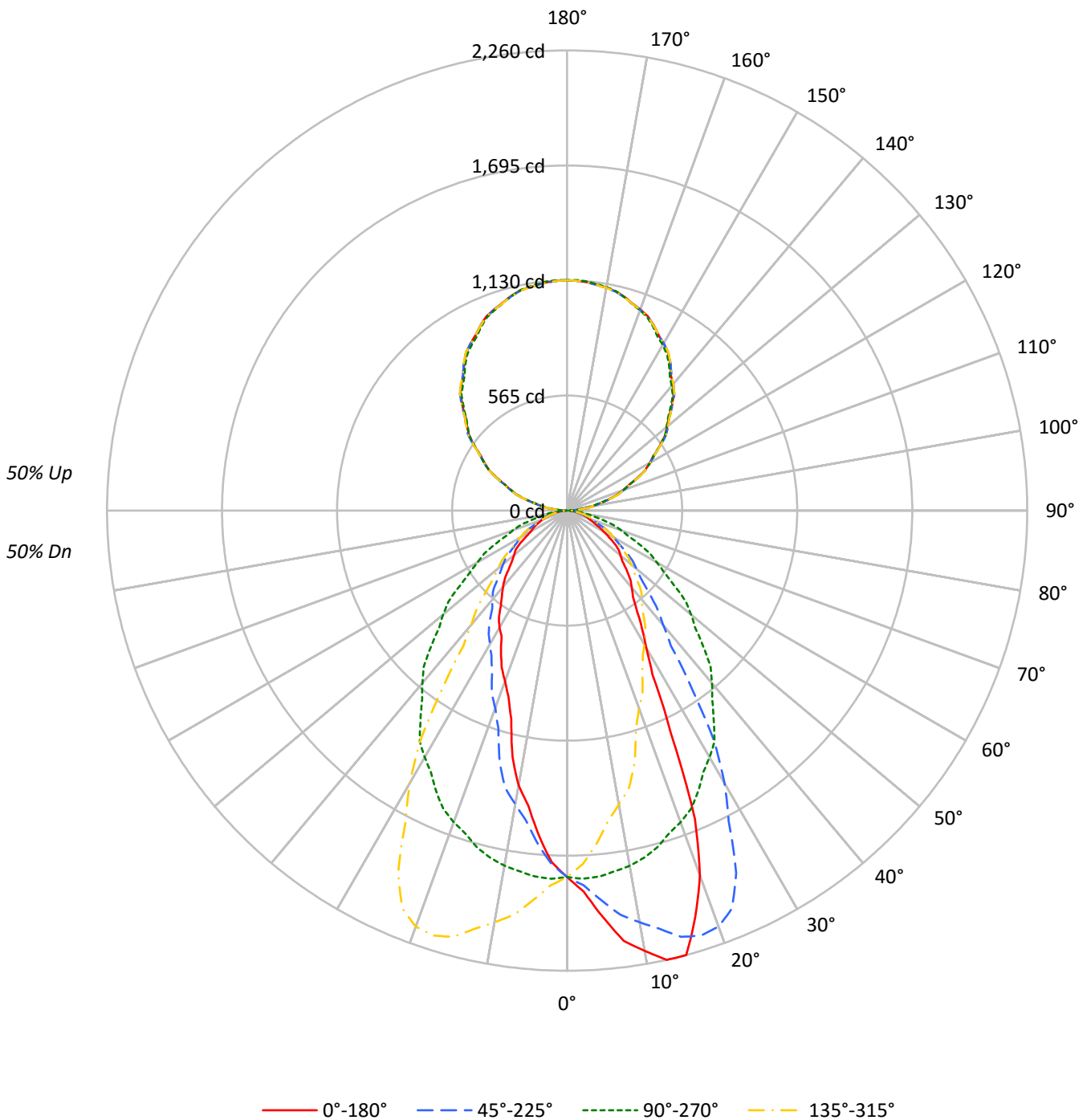
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.7
10°-20°	475.4	7.6
20°-30°	612.6	9.8
30°-40°	582.2	9.3
40°-50°	498.7	7.9
50°-60°	379.8	6.0
60°-70°	240.1	3.8
70°-80°	119.9	1.9
80°-90°	35.7	0.6
90°-100°	71.7	1.1
100°-110°	222.6	3.5
110°-120°	380.6	6.1
120°-130°	500.5	8.0
130°-140°	561.7	8.9
140°-150°	550.8	8.8
150°-160°	462.0	7.4
160°-170°	306.4	4.9
170°-180°	107.1	1.7
0°-30°	1258.6	20.0
0°-40°	1840.8	29.3
0°-60°	2719.4	43.3
0°-90°	3115.1	49.6
90°-120°	674.9	10.7
90°-150°	2287.8	36.4
90°-180°	3163.0	50.4
0°-180°	6278.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	25
90°	32	1	32	1	32	15
95°	59	50	59	50	59	66
105°	212	205	212	205	212	223
115°	382	382	382	382	382	377
125°	558	556	558	556	558	497
135°	728	719	728	719	728	560
145°	882	872	882	872	882	551
155°	1005	998	1005	998	1005	463
165°	1086	1085	1086	1085	1086	306
175°	1126	1129	1126	1129	1126	107
180°	1131	1131	1131	1131	1131	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	14.5	15.0	14.9	14.9	14.8	14.9	14.9	15.6	15.1	15.6	14.2
90°	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5	33.0	33.4	28.7
92.5°	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5	30.4	30.3	29.2
95°	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1	61.1	61.1	60.7
97.5°	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7	102.7	102.7	101.9
100°	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8	131.8	131.8	131.1
102.5°	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4	163.2	163.1	162.2
105°	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8	210.5	210.0	209.6
107.5°	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1	261.9	261.7	261.7
110°	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9	296.9	296.9	296.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8	332.2	332.8	333.0
115°	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2	385.5	385.7	386.1
117.5°	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0	437.5	438.0	439.2
120°	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6	471.6	471.6	473.3
122.5°	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3	507.7	508.2	509.4
125°	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1	560.7	561.4	561.9
127.5°	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3	612.1	612.9	613.7
130°	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4	646.9	647.2	647.7
132.5°	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5	681.5	682.4	682.3
135°	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8	731.0	731.2	730.8
137.5°	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0	779.2	779.4	778.8
140°	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4	811.4	811.4	810.4
142.5°	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8	840.7	840.5	839.8
145°	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4	885.1	885.0	883.7
147.5°	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4	924.0	923.5	922.7
150°	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2	948.6	948.0	947.2
152.5°	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0	973.2	972.4	971.4
155°	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5	1004.4	1003.3	1002.7
157.5°	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5	1033.0	1031.6	1031.2
160°	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7	1050.5	1049.1	1049.0
162.5°	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3	1065.9	1064.4	1064.2
165°	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5	1086.0	1084.5	1084.5
167.5°	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1	1102.6	1101.1	1101.2
170°	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2	1111.7	1110.3	1110.5
172.5°	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1	1118.6	1117.1	1117.4
175°	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6	1126.1	1124.5	1125.0
177.5°	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0	1129.4
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	13.3	12.9	12.0	10.7	10.7	10.7	12.7	14.7	13.2	12.3	11.7
90°	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9	3.5	6.0	8.6
92.5°	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0	18.9	20.7	22.6
95°	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7	51.7	53.9	56.0
97.5°	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7	92.6	94.4	96.3
100°	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2	122.9	124.6	126.3
102.5°	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4	154.7	156.0	157.4
105°	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3	205.9	206.5	207.2
107.5°	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6	258.5	259.4	260.3
110°	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2	292.5	293.7	295.0



TEST NUMBER: P331834-830

CATALOG NUMBER: S122RDIW-S865D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8	329.1	330.4	331.7
115°	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8	383.1	384.4	385.7
117.5°	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7	437.4	439.1	440.8
120°	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	473.3	475.0	476.7
122.5°	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4	506.5	508.5	510.6
125°	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6	557.5	559.4	561.4
127.5°	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5	607.8	610.3	612.7
130°	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8	639.5	642.2	645.1
132.5°	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8	674.1	676.4	678.6
135°	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9	721.2	723.5	725.9
137.5°	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3	770.2	772.1	774.0
140°	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1	800.0	801.9	803.8
142.5°	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7	830.6	832.5	834.3
145°	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5	874.0	875.5	877.0
147.5°	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7	913.5	915.3	917.0
150°	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4	939.7	940.9	942.3
152.5°	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1	963.4	964.7	965.9
155°	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6	998.2	998.9	999.6
157.5°	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9	1028.4	1028.8	1029.3
160°	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3	1046.7	1047.2	1047.5
162.5°	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1	1063.2	1063.3	1063.4
165°	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4	1085.2	1085.1	1084.8
167.5°	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2	1103.5	1102.9	1102.2
170°	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1	1113.4	1112.9	1112.2
172.5°	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0	1120.3	1119.6	1119.1
175°	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4	1128.7	1128.1	1127.5
177.5°	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8	1132.3	1131.8	1131.2
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331834-830

CATALOG NUMBER: S122RDIW-S865D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	11.7	12.0	11.9	12.8	13.8	14.2	14.1	13.5	13.5	13.4	12.8
90°	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5	32.1	31.7	31.6
92.5°	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5	30.6	30.7	30.7
95°	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1	61.1	61.1	60.9
97.5°	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7	102.7	102.7	102.7
100°	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8	131.8	131.8	131.7
102.5°	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4	163.5	163.7	163.7
105°	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8	211.3	211.7	212.0
107.5°	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1	262.3	262.4	262.0
110°	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.6



TEST NUMBER: P331834-830

CATALOG NUMBER: S122RDIW-S865D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8	331.3	330.7	330.3
115°	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2	385.0	384.8	384.4
117.5°	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0	436.5	435.9	435.4
120°	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6	471.6	471.6	471.3
122.5°	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3	506.7	506.2	505.8
125°	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1	559.4	558.8	558.4
127.5°	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3	610.6	609.8	609.1
130°	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4	646.0	645.5	644.9
132.5°	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5	679.6	678.6	677.9
135°	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8	730.7	730.4	730.0
137.5°	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0	778.9	778.7	778.2
140°	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4	811.4	811.4	811.1
142.5°	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8	841.0	841.1	840.8
145°	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4	885.6	885.8	885.5
147.5°	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4	924.9	925.4	925.2
150°	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2	949.9	950.6	950.6
152.5°	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0	974.9	975.6	975.6
155°	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5	1006.5	1007.6	1007.8
157.5°	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5	1035.9	1037.4	1037.6
160°	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7	1053.0	1054.2	1054.5
162.5°	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3	1068.7	1070.3	1070.4
165°	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5	1088.9	1090.4	1090.6
167.5°	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1	1105.6	1107.0	1107.2
170°	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2	1114.7	1116.3	1116.3
172.5°	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1	1121.6	1123.0	1123.2
175°	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6	1129.1	1130.5	1130.7
177.5°	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331834-830

CATALOG NUMBER: S122RDIW-S865D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	12.9	12.4	12.9	12.5	12.9	12.4	12.9	12.8	13.4	13.5	13.5
90°	31.9	32.0	32.2	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5
92.5°	30.8	30.8	30.9	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5
95°	60.4	60.0	59.6	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1
97.5°	102.6	102.6	102.5	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7
100°	131.4	131.2	131.0	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8
102.5°	163.5	163.2	163.1	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4
105°	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8
107.5°	261.1	260.0	259.1	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1
110°	296.0	295.3	294.6	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9



TEST NUMBER: P331834-830

CATALOG NUMBER: S122RDIW-S865D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	329.8	329.3	328.9	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8
115°	383.8	383.1	382.5	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2
117.5°	434.8	434.1	433.5	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0
120°	470.6	470.0	469.4	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6
122.5°	505.3	504.8	504.4	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3
125°	558.2	558.0	557.7	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1
127.5°	608.4	607.8	607.1	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3
130°	644.0	643.2	642.3	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4
132.5°	677.2	676.5	675.8	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5
135°	729.3	728.7	728.1	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8
137.5°	777.3	776.5	775.6	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0
140°	810.2	809.4	808.5	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4
142.5°	840.0	839.1	838.3	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8
145°	884.7	883.8	883.0	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4
147.5°	924.4	923.6	922.8	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4
150°	949.9	949.2	948.6	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2
152.5°	974.9	974.0	973.2	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0
155°	1007.2	1006.5	1005.9	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5
157.5°	1036.6	1035.6	1034.5	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5
160°	1053.7	1052.8	1052.0	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7
162.5°	1069.4	1068.4	1067.3	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3
165°	1089.6	1088.5	1087.5	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5
167.5°	1106.2	1105.0	1103.9	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1
170°	1115.0	1113.8	1112.5	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2
172.5°	1121.9	1120.7	1119.4	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1
175°	1129.4	1128.1	1126.8	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6
177.5°	1132.0	1131.1	1130.0	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	14.1	14.2	13.8	12.8	11.9	12.0	11.7	11.7	12.3	13.2	14.7
90°	33.0	33.4	28.7	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9
92.5°	30.4	30.3	29.2	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0
95°	61.1	61.1	60.7	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7
97.5°	102.7	102.7	101.9	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7
100°	131.8	131.8	131.1	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2
102.5°	163.2	163.1	162.2	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4
105°	210.5	210.0	209.6	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3
107.5°	261.9	261.7	261.7	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6
110°	296.9	296.9	296.9	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	332.8	333.0	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8
115°	385.5	385.7	386.1	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8
117.5°	437.5	438.0	439.2	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7
120°	471.6	471.6	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6
122.5°	507.7	508.2	509.4	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4
125°	560.7	561.4	561.9	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6
127.5°	612.1	612.9	613.7	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5
130°	646.9	647.2	647.7	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8
132.5°	681.5	682.4	682.3	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8
135°	731.0	731.2	730.8	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9
137.5°	779.2	779.4	778.8	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3
140°	811.4	811.4	810.4	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1
142.5°	840.7	840.5	839.8	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7
145°	885.1	885.0	883.7	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5
147.5°	924.0	923.5	922.7	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7
150°	948.6	948.0	947.2	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4
152.5°	973.2	972.4	971.4	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1
155°	1004.4	1003.3	1002.7	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6
157.5°	1033.0	1031.6	1031.2	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9
160°	1050.5	1049.1	1049.0	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3
162.5°	1065.9	1064.4	1064.2	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1
165°	1086.0	1084.5	1084.5	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4
167.5°	1102.6	1101.1	1101.2	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2
170°	1111.7	1110.3	1110.5	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1
172.5°	1118.6	1117.1	1117.4	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0
175°	1126.1	1124.5	1125.0	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4
177.5°	1130.0	1129.0	1129.4	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.7	10.7	10.7	10.7	12.0	12.9	13.3	14.2	15.6	15.1	15.6
90°	3.5	6.0	8.6	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5
92.5°	18.9	20.7	22.6	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5
95°	51.7	53.9	56.0	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1
97.5°	92.6	94.4	96.3	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7
100°	122.9	124.6	126.3	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8
102.5°	154.7	156.0	157.4	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4
105°	205.9	206.5	207.2	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8
107.5°	258.5	259.4	260.3	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1
110°	292.5	293.7	295.0	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	329.1	330.4	331.7	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8
115°	383.1	384.4	385.7	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2
117.5°	437.4	439.1	440.8	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0
120°	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6
122.5°	506.5	508.5	510.6	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3
125°	557.5	559.4	561.4	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1
127.5°	607.8	610.3	612.7	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3
130°	639.5	642.2	645.1	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4
132.5°	674.1	676.4	678.6	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5
135°	721.2	723.5	725.9	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8
137.5°	770.2	772.1	774.0	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0
140°	800.0	801.9	803.8	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4
142.5°	830.6	832.5	834.3	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8
145°	874.0	875.5	877.0	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4
147.5°	913.5	915.3	917.0	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4
150°	939.7	940.9	942.3	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2
152.5°	963.4	964.7	965.9	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0
155°	998.2	998.9	999.6	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5
157.5°	1028.4	1028.8	1029.3	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5
160°	1046.7	1047.2	1047.5	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7
162.5°	1063.2	1063.3	1063.4	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3
165°	1085.2	1085.1	1084.8	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5
167.5°	1103.5	1102.9	1102.2	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1
170°	1113.4	1112.9	1112.2	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2
172.5°	1120.3	1119.6	1119.1	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1
175°	1128.7	1128.1	1127.5	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6
177.5°	1132.3	1131.8	1131.2	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	14.9	14.9	14.8	14.9	14.9	15.0	14.5
90°	32.1	31.7	31.6	31.9	32.0	32.2	32.4
92.5°	30.6	30.7	30.7	30.8	30.8	30.9	30.9
95°	61.1	61.1	60.9	60.4	60.0	59.6	59.2
97.5°	102.7	102.7	102.7	102.6	102.6	102.5	102.5
100°	131.8	131.8	131.7	131.4	131.2	131.0	130.8
102.5°	163.5	163.7	163.7	163.5	163.2	163.1	162.9
105°	211.3	211.7	212.0	212.0	212.0	212.0	212.0
107.5°	262.3	262.4	262.0	261.1	260.0	259.1	258.2
110°	296.9	296.9	296.6	296.0	295.3	294.6	294.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	331.3	330.7	330.3	329.8	329.3	328.9	328.4
115°	385.0	384.8	384.4	383.8	383.1	382.5	381.8
117.5°	436.5	435.9	435.4	434.8	434.1	433.5	432.8
120°	471.6	471.6	471.3	470.6	470.0	469.4	468.7
122.5°	506.7	506.2	505.8	505.3	504.8	504.4	503.9
125°	559.4	558.8	558.4	558.2	558.0	557.7	557.5
127.5°	610.6	609.8	609.1	608.4	607.8	607.1	606.4
130°	646.0	645.5	644.9	644.0	643.2	642.3	641.5
132.5°	679.6	678.6	677.9	677.2	676.5	675.8	675.1
135°	730.7	730.4	730.0	729.3	728.7	728.1	727.5
137.5°	778.9	778.7	778.2	777.3	776.5	775.6	774.8
140°	811.4	811.4	811.1	810.2	809.4	808.5	807.7
142.5°	841.0	841.1	840.8	840.0	839.1	838.3	837.4
145°	885.6	885.8	885.5	884.7	883.8	883.0	882.1
147.5°	924.9	925.4	925.2	924.4	923.6	922.8	922.0
150°	949.9	950.6	950.6	949.9	949.2	948.6	948.0
152.5°	974.9	975.6	975.6	974.9	974.0	973.2	972.4
155°	1006.5	1007.6	1007.8	1007.2	1006.5	1005.9	1005.2
157.5°	1035.9	1037.4	1037.6	1036.6	1035.6	1034.5	1033.5
160°	1053.0	1054.2	1054.5	1053.7	1052.8	1052.0	1051.1
162.5°	1068.7	1070.3	1070.4	1069.4	1068.4	1067.3	1066.4
165°	1088.9	1090.4	1090.6	1089.6	1088.5	1087.5	1086.4
167.5°	1105.6	1107.0	1107.2	1106.2	1105.0	1103.9	1102.9
170°	1114.7	1116.3	1116.3	1115.0	1113.8	1112.5	1111.3
172.5°	1121.6	1123.0	1123.2	1121.9	1120.7	1119.4	1118.1
175°	1129.1	1130.5	1130.7	1129.4	1128.1	1126.8	1125.6
177.5°	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2

(END OF REPORT)