

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: P331730-830

Luminaire Tested: **SA2XXRDIP-C865D1080U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331730-830
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-C865D1080U830-4F0-1E-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: 6743.5 lumens
Efficiency: N/A
Efficacy: 103.1 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

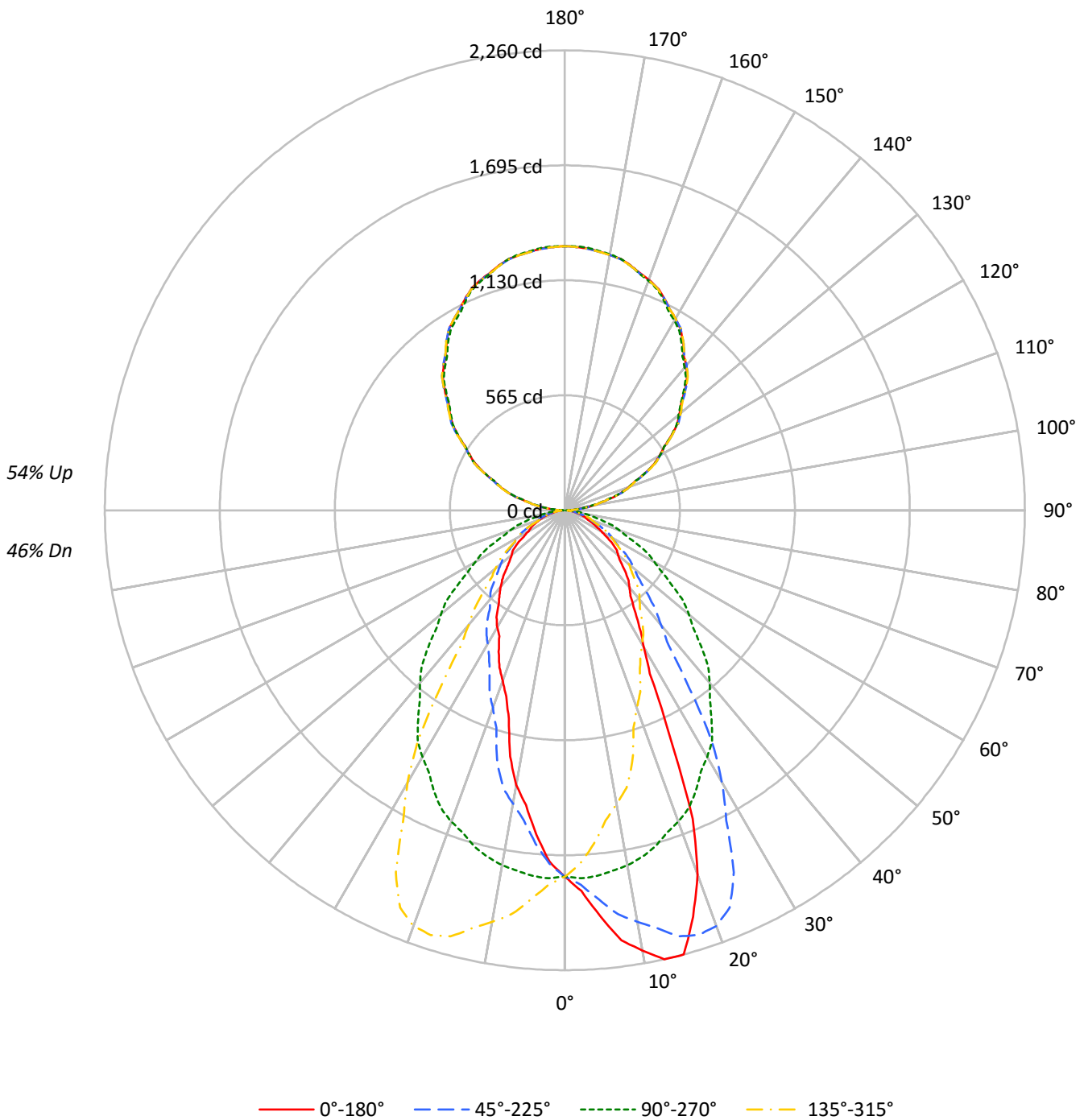
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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	2.5
10°-20°	475.4	7.1
20°-30°	612.6	9.1
30°-40°	582.2	8.6
40°-50°	498.7	7.4
50°-60°	379.8	5.6
60°-70°	240.1	3.6
70°-80°	119.9	1.8
80°-90°	36.4	0.5
90°-100°	82.2	1.2
100°-110°	255.3	3.8
110°-120°	436.4	6.5
120°-130°	573.9	8.5
130°-140°	644.2	9.6
140°-150°	631.6	9.4
150°-160°	529.8	7.9
160°-170°	351.4	5.2
170°-180°	122.8	1.8
0°-30°	1258.6	18.7
0°-40°	1840.8	27.3
0°-60°	2719.4	40.3
0°-90°	3115.7	46.2
90°-120°	774.0	11.5
90°-150°	2623.7	38.9
90°-180°	3628.0	53.8
0°-180°	6743.5	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°	37	1	37	1	37	17
95°	68	57	68	57	68	76
105°	243	235	243	235	243	256
115°	438	438	438	438	438	432
125°	639	637	639	637	639	570
135°	834	824	834	824	834	642
145°	1012	1001	1012	1001	1012	632
155°	1153	1144	1153	1144	1153	531
165°	1246	1245	1246	1245	1246	351
175°	1291	1295	1291	1295	1291	123
180°	1297	1297	1297	1297	1297	



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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°	15.5	15.9	15.8	15.8	15.7	15.7	15.8	16.5	16.1	16.7	15.1
90°	37.2	36.9	36.8	36.5	36.3	36.4	36.9	37.3	37.8	38.4	33.0
92.5°	35.4	35.4	35.3	35.3	35.3	35.3	35.1	35.0	34.9	34.8	33.6
95°	67.9	68.3	68.9	69.4	69.8	70.0	70.0	70.0	70.0	70.0	69.6
97.5°	117.6	117.6	117.7	117.7	117.8	117.8	117.8	117.8	117.8	117.8	116.9
100°	150.0	150.2	150.5	150.7	151.0	151.1	151.1	151.1	151.1	151.1	150.3
102.5°	186.8	187.0	187.3	187.5	187.8	187.8	187.6	187.4	187.2	187.0	186.1
105°	243.1	243.1	243.1	243.1	243.1	242.8	242.3	241.9	241.4	240.8	240.3
107.5°	296.1	297.2	298.3	299.4	300.5	301.0	300.8	300.6	300.4	300.2	300.2
110°	337.2	337.9	338.7	339.4	340.2	340.5	340.5	340.5	340.5	340.5	340.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	376.6	377.2	377.7	378.2	378.8	379.4	379.9	380.5	381.1	381.6	381.8
115°	437.9	438.7	439.4	440.2	440.8	441.3	441.6	441.9	442.1	442.3	442.8
117.5°	496.4	497.1	497.9	498.6	499.4	500.0	500.6	501.1	501.7	502.3	503.7
120°	537.5	538.3	539.0	539.8	540.5	540.8	540.8	540.8	540.8	540.8	542.8
122.5°	577.9	578.4	578.9	579.5	580.0	580.5	581.2	581.7	582.3	582.9	584.3
125°	639.4	639.6	639.9	640.1	640.4	640.8	641.6	642.3	643.0	643.8	644.5
127.5°	695.4	696.3	697.0	697.8	698.5	699.4	700.2	701.2	702.0	702.9	703.8
130°	735.7	736.7	737.6	738.7	739.6	740.4	740.8	741.3	741.8	742.3	742.8
132.5°	774.3	775.1	775.8	776.7	777.4	778.4	779.4	780.4	781.6	782.6	782.5
135°	834.2	835.0	835.8	836.4	837.2	837.6	837.9	838.2	838.4	838.7	838.2
137.5°	888.5	889.6	890.5	891.5	892.5	893.1	893.2	893.4	893.6	893.8	893.2
140°	926.2	927.2	928.2	929.2	930.1	930.6	930.6	930.6	930.6	930.6	929.4
142.5°	960.4	961.4	962.3	963.3	964.3	964.7	964.5	964.3	964.1	963.9	963.1
145°	1011.6	1012.6	1013.6	1014.6	1015.5	1015.9	1015.7	1015.4	1015.1	1014.9	1013.4
147.5°	1057.4	1058.3	1059.2	1060.2	1061.1	1061.3	1060.7	1060.3	1059.7	1059.1	1058.2
150°	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1	1089.4	1088.6	1087.9	1087.2	1086.2
152.5°	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9	1117.9	1117.1	1116.2	1115.2	1114.1
155°	1152.8	1153.6	1154.3	1155.1	1155.7	1155.6	1154.3	1153.1	1151.9	1150.7	1150.0
157.5°	1185.2	1186.5	1187.6	1188.7	1190.0	1189.7	1188.1	1186.4	1184.8	1183.1	1182.6
160°	1205.4	1206.4	1207.4	1208.3	1209.3	1209.1	1207.6	1206.2	1204.7	1203.2	1203.0
162.5°	1222.9	1224.1	1225.3	1226.4	1227.6	1227.4	1225.7	1224.1	1222.4	1220.8	1220.5
165°	1245.9	1247.2	1248.4	1249.6	1250.8	1250.6	1248.9	1247.2	1245.5	1243.8	1243.8
167.5°	1264.8	1266.0	1267.2	1268.6	1269.8	1269.6	1267.9	1266.2	1264.5	1262.8	1262.8
170°	1274.4	1275.8	1277.3	1278.7	1280.3	1280.1	1278.4	1276.7	1275.0	1273.3	1273.6
172.5°	1282.2	1283.7	1285.2	1286.7	1288.1	1288.0	1286.3	1284.6	1282.9	1281.2	1281.4
175°	1290.8	1292.3	1293.7	1295.2	1296.7	1296.6	1294.9	1293.2	1291.5	1289.7	1290.2
177.5°	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4	1298.3	1297.1	1295.9	1294.8	1295.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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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°	14.0	13.5	12.3	11.0	10.9	10.9	12.8	14.7	13.3	12.3	12.0
90°	27.6	22.2	16.9	12.8	9.9	7.0	4.1	1.1	4.1	7.0	9.9
92.5°	32.3	31.0	29.8	28.1	25.9	23.8	21.6	19.5	21.6	23.8	25.9
95°	69.1	68.6	68.1	66.6	64.2	61.8	59.4	56.9	59.4	61.8	64.2
97.5°	115.9	115.0	114.1	112.5	110.5	108.3	106.1	104.1	106.1	108.3	110.5
100°	149.6	148.9	148.2	146.8	144.9	143.0	141.0	139.0	141.0	143.0	144.9
102.5°	185.1	184.3	183.3	182.1	180.5	179.0	177.4	175.9	177.4	179.0	180.5
105°	239.9	239.4	238.9	238.3	237.6	236.9	236.1	235.4	236.1	236.9	237.6
107.5°	300.2	300.2	300.2	299.6	298.6	297.6	296.4	295.4	296.4	297.6	298.6
110°	340.5	340.5	340.5	339.8	338.3	336.9	335.4	333.9	335.4	336.9	338.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	382.0	382.2	382.5	381.8	380.3	378.9	377.4	376.0	377.4	378.9	380.3
115°	443.3	443.7	444.2	443.7	442.3	440.8	439.4	437.9	439.4	440.8	442.3
117.5°	505.0	506.4	507.7	507.5	505.5	503.6	501.6	499.6	501.6	503.6	505.5
120°	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8	542.8	544.8	546.7
122.5°	585.6	587.0	588.3	587.9	585.5	583.2	580.9	578.5	580.9	583.2	585.5
125°	645.3	645.9	646.7	645.9	643.8	641.6	639.4	637.2	639.4	641.6	643.8
127.5°	704.6	705.5	706.4	705.4	702.7	699.9	697.1	694.4	697.1	699.9	702.7
130°	743.3	743.8	744.2	742.9	739.7	736.6	733.4	730.3	733.4	736.6	739.7
132.5°	782.4	782.3	782.2	780.9	778.3	775.7	773.2	770.5	773.2	775.7	778.3
135°	837.6	837.2	836.7	835.1	832.5	829.8	827.1	824.4	827.1	829.8	832.5
137.5°	892.6	891.9	891.3	889.9	887.7	885.5	883.4	881.1	883.4	885.5	887.7
140°	928.2	927.0	925.8	924.1	921.9	919.6	917.5	915.3	917.5	919.6	921.9
142.5°	962.2	961.4	960.5	959.0	956.9	954.7	952.5	950.4	952.5	954.7	956.9
145°	1012.0	1010.5	1009.1	1007.5	1005.8	1004.1	1002.4	1000.7	1002.4	1004.1	1005.8
147.5°	1057.2	1056.2	1055.3	1053.8	1051.7	1049.6	1047.6	1045.6	1047.6	1049.6	1051.7
150°	1085.2	1084.3	1083.3	1082.0	1080.6	1079.1	1077.7	1076.2	1077.7	1079.1	1080.6
152.5°	1112.9	1111.7	1110.5	1109.2	1107.8	1106.3	1104.8	1103.3	1104.8	1106.3	1107.8
155°	1149.2	1148.5	1147.7	1147.1	1146.3	1145.6	1144.8	1144.2	1144.8	1145.6	1146.3
157.5°	1182.2	1181.8	1181.3	1180.9	1180.3	1179.9	1179.4	1178.9	1179.4	1179.9	1180.3
160°	1202.8	1202.5	1202.2	1201.9	1201.4	1200.9	1200.4	1200.0	1200.4	1200.9	1201.4
162.5°	1220.2	1220.0	1219.7	1219.7	1219.5	1219.4	1219.3	1219.2	1219.3	1219.4	1219.5
165°	1243.8	1243.8	1243.8	1243.9	1244.1	1244.3	1244.6	1244.8	1244.6	1244.3	1244.1
167.5°	1262.9	1262.9	1263.0	1263.4	1264.1	1264.8	1265.6	1266.3	1265.6	1264.8	1264.1
170°	1273.8	1274.0	1274.3	1274.8	1275.4	1276.2	1277.0	1277.7	1277.0	1276.2	1275.4
172.5°	1281.7	1282.0	1282.1	1282.6	1283.4	1284.1	1284.9	1285.5	1284.9	1284.1	1283.4
175°	1290.7	1291.2	1291.7	1292.3	1293.0	1293.7	1294.5	1295.2	1294.5	1293.7	1293.0
177.5°	1295.5	1295.9	1296.3	1296.8	1297.4	1298.0	1298.5	1299.1	1298.5	1298.0	1297.4
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



TEST NUMBER: P331730-830

CATALOG NUMBER: SA2XXRDIP-C865D1080U830-4F0-1E-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°	12.1	12.3	12.4	13.6	14.6	15.2	15.1	14.5	14.4	14.2	13.8
90°	12.8	16.9	22.2	27.6	33.0	38.4	37.8	37.3	36.9	36.4	36.3
92.5°	28.1	29.8	31.0	32.3	33.6	34.8	34.9	35.0	35.1	35.3	35.3
95°	66.6	68.1	68.6	69.1	69.6	70.0	70.0	70.0	70.0	70.0	69.8
97.5°	112.5	114.1	115.0	115.9	116.9	117.8	117.8	117.8	117.8	117.8	117.8
100°	146.8	148.2	148.9	149.6	150.3	151.1	151.1	151.1	151.1	151.1	151.0
102.5°	182.1	183.3	184.3	185.1	186.1	187.0	187.2	187.4	187.6	187.8	187.8
105°	238.3	238.9	239.4	239.9	240.3	240.8	241.4	241.9	242.3	242.8	243.1
107.5°	299.6	300.2	300.2	300.2	300.2	300.2	300.4	300.6	300.8	301.0	300.5
110°	339.8	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	381.8	382.5	382.2	382.0	381.8	381.6	381.1	380.5	379.9	379.4	378.8
115°	443.7	444.2	443.7	443.3	442.8	442.3	442.1	441.9	441.6	441.3	440.8
117.5°	507.5	507.7	506.4	505.0	503.7	502.3	501.7	501.1	500.6	500.0	499.4
120°	548.7	548.7	546.7	544.8	542.8	540.8	540.8	540.8	540.8	540.8	540.5
122.5°	587.9	588.3	587.0	585.6	584.3	582.9	582.3	581.7	581.2	580.5	580.0
125°	645.9	646.7	645.9	645.3	644.5	643.8	643.0	642.3	641.6	640.8	640.4
127.5°	705.4	706.4	705.5	704.6	703.8	702.9	702.0	701.2	700.2	699.4	698.5
130°	742.9	744.2	743.8	743.3	742.8	742.3	741.8	741.3	740.8	740.4	739.6
132.5°	780.9	782.2	782.3	782.4	782.5	782.6	781.6	780.4	779.4	778.4	777.4
135°	835.1	836.7	837.2	837.6	838.2	838.7	838.4	838.2	837.9	837.6	837.2
137.5°	889.9	891.3	891.9	892.6	893.2	893.8	893.6	893.4	893.2	893.1	892.5
140°	924.1	925.8	927.0	928.2	929.4	930.6	930.6	930.6	930.6	930.6	930.1
142.5°	959.0	960.5	961.4	962.2	963.1	963.9	964.1	964.3	964.5	964.7	964.3
145°	1007.5	1009.1	1010.5	1012.0	1013.4	1014.9	1015.1	1015.4	1015.7	1015.9	1015.5
147.5°	1053.8	1055.3	1056.2	1057.2	1058.2	1059.1	1059.7	1060.3	1060.7	1061.3	1061.1
150°	1082.0	1083.3	1084.3	1085.2	1086.2	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1
152.5°	1109.2	1110.5	1111.7	1112.9	1114.1	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9
155°	1147.1	1147.7	1148.5	1149.2	1150.0	1150.7	1151.9	1153.1	1154.3	1155.6	1155.7
157.5°	1180.9	1181.3	1181.8	1182.2	1182.6	1183.1	1184.8	1186.4	1188.1	1189.7	1190.0
160°	1201.9	1202.2	1202.5	1202.8	1203.0	1203.2	1204.7	1206.2	1207.6	1209.1	1209.3
162.5°	1219.7	1219.7	1220.0	1220.2	1220.5	1220.8	1222.4	1224.1	1225.7	1227.4	1227.6
165°	1243.9	1243.8	1243.8	1243.8	1243.8	1243.8	1245.5	1247.2	1248.9	1250.6	1250.8
167.5°	1263.4	1263.0	1262.9	1262.9	1262.8	1262.8	1264.5	1266.2	1267.9	1269.6	1269.8
170°	1274.8	1274.3	1274.0	1273.8	1273.6	1273.3	1275.0	1276.7	1278.4	1280.1	1280.3
172.5°	1282.6	1282.1	1282.0	1281.7	1281.4	1281.2	1282.9	1284.6	1286.3	1288.0	1288.1
175°	1292.3	1291.7	1291.2	1290.7	1290.2	1289.7	1291.5	1293.2	1294.9	1296.6	1296.7
177.5°	1296.8	1296.3	1295.9	1295.5	1295.1	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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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°	13.8	13.4	13.9	13.5	13.9	13.4	13.8	13.8	14.2	14.4	14.5
90°	36.5	36.8	36.9	37.2	36.9	36.8	36.5	36.3	36.4	36.9	37.3
92.5°	35.3	35.3	35.4	35.4	35.4	35.3	35.3	35.3	35.3	35.1	35.0
95°	69.4	68.9	68.3	67.9	68.3	68.9	69.4	69.8	70.0	70.0	70.0
97.5°	117.7	117.7	117.6	117.6	117.6	117.7	117.7	117.8	117.8	117.8	117.8
100°	150.7	150.5	150.2	150.0	150.2	150.5	150.7	151.0	151.1	151.1	151.1
102.5°	187.5	187.3	187.0	186.8	187.0	187.3	187.5	187.8	187.8	187.6	187.4
105°	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	242.8	242.3	241.9
107.5°	299.4	298.3	297.2	296.1	297.2	298.3	299.4	300.5	301.0	300.8	300.6
110°	339.4	338.7	337.9	337.2	337.9	338.7	339.4	340.2	340.5	340.5	340.5



TEST NUMBER: P331730-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	378.2	377.7	377.2	376.6	377.2	377.7	378.2	378.8	379.4	379.9	380.5
115°	440.2	439.4	438.7	437.9	438.7	439.4	440.2	440.8	441.3	441.6	441.9
117.5°	498.6	497.9	497.1	496.4	497.1	497.9	498.6	499.4	500.0	500.6	501.1
120°	539.8	539.0	538.3	537.5	538.3	539.0	539.8	540.5	540.8	540.8	540.8
122.5°	579.5	578.9	578.4	577.9	578.4	578.9	579.5	580.0	580.5	581.2	581.7
125°	640.1	639.9	639.6	639.4	639.6	639.9	640.1	640.4	640.8	641.6	642.3
127.5°	697.8	697.0	696.3	695.4	696.3	697.0	697.8	698.5	699.4	700.2	701.2
130°	738.7	737.6	736.7	735.7	736.7	737.6	738.7	739.6	740.4	740.8	741.3
132.5°	776.7	775.8	775.1	774.3	775.1	775.8	776.7	777.4	778.4	779.4	780.4
135°	836.4	835.8	835.0	834.2	835.0	835.8	836.4	837.2	837.6	837.9	838.2
137.5°	891.5	890.5	889.6	888.5	889.6	890.5	891.5	892.5	893.1	893.2	893.4
140°	929.2	928.2	927.2	926.2	927.2	928.2	929.2	930.1	930.6	930.6	930.6
142.5°	963.3	962.3	961.4	960.4	961.4	962.3	963.3	964.3	964.7	964.5	964.3
145°	1014.6	1013.6	1012.6	1011.6	1012.6	1013.6	1014.6	1015.5	1015.9	1015.7	1015.4
147.5°	1060.2	1059.2	1058.3	1057.4	1058.3	1059.2	1060.2	1061.1	1061.3	1060.7	1060.3
150°	1089.4	1088.6	1087.9	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1	1089.4	1088.6
152.5°	1117.9	1117.1	1116.2	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9	1117.9	1117.1
155°	1155.1	1154.3	1153.6	1152.8	1153.6	1154.3	1155.1	1155.7	1155.6	1154.3	1153.1
157.5°	1188.7	1187.6	1186.5	1185.2	1186.5	1187.6	1188.7	1190.0	1189.7	1188.1	1186.4
160°	1208.3	1207.4	1206.4	1205.4	1206.4	1207.4	1208.3	1209.3	1209.1	1207.6	1206.2
162.5°	1226.4	1225.3	1224.1	1222.9	1224.1	1225.3	1226.4	1227.6	1227.4	1225.7	1224.1
165°	1249.6	1248.4	1247.2	1245.9	1247.2	1248.4	1249.6	1250.8	1250.6	1248.9	1247.2
167.5°	1268.6	1267.2	1266.0	1264.8	1266.0	1267.2	1268.6	1269.8	1269.6	1267.9	1266.2
170°	1278.7	1277.3	1275.8	1274.4	1275.8	1277.3	1278.7	1280.3	1280.1	1278.4	1276.7
172.5°	1286.7	1285.2	1283.7	1282.2	1283.7	1285.2	1286.7	1288.1	1288.0	1286.3	1284.6
175°	1295.2	1293.7	1292.3	1290.8	1292.3	1293.7	1295.2	1296.7	1296.6	1294.9	1293.2
177.5°	1298.3	1297.1	1295.9	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4	1298.3	1297.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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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°	15.1	15.2	14.6	13.6	12.4	12.3	12.1	12.0	12.3	13.3	14.7
90°	37.8	38.4	33.0	27.6	22.2	16.9	12.8	9.9	7.0	4.1	1.1
92.5°	34.9	34.8	33.6	32.3	31.0	29.8	28.1	25.9	23.8	21.6	19.5
95°	70.0	70.0	69.6	69.1	68.6	68.1	66.6	64.2	61.8	59.4	56.9
97.5°	117.8	117.8	116.9	115.9	115.0	114.1	112.5	110.5	108.3	106.1	104.1
100°	151.1	151.1	150.3	149.6	148.9	148.2	146.8	144.9	143.0	141.0	139.0
102.5°	187.2	187.0	186.1	185.1	184.3	183.3	182.1	180.5	179.0	177.4	175.9
105°	241.4	240.8	240.3	239.9	239.4	238.9	238.3	237.6	236.9	236.1	235.4
107.5°	300.4	300.2	300.2	300.2	300.2	300.2	299.6	298.6	297.6	296.4	295.4
110°	340.5	340.5	340.5	340.5	340.5	340.5	339.8	338.3	336.9	335.4	333.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	381.1	381.6	381.8	382.0	382.2	382.5	381.8	380.3	378.9	377.4	376.0
115°	442.1	442.3	442.8	443.3	443.7	444.2	443.7	442.3	440.8	439.4	437.9
117.5°	501.7	502.3	503.7	505.0	506.4	507.7	507.5	505.5	503.6	501.6	499.6
120°	540.8	540.8	542.8	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8
122.5°	582.3	582.9	584.3	585.6	587.0	588.3	587.9	585.5	583.2	580.9	578.5
125°	643.0	643.8	644.5	645.3	645.9	646.7	645.9	643.8	641.6	639.4	637.2
127.5°	702.0	702.9	703.8	704.6	705.5	706.4	705.4	702.7	699.9	697.1	694.4
130°	741.8	742.3	742.8	743.3	743.8	744.2	742.9	739.7	736.6	733.4	730.3
132.5°	781.6	782.6	782.5	782.4	782.3	782.2	780.9	778.3	775.7	773.2	770.5
135°	838.4	838.7	838.2	837.6	837.2	836.7	835.1	832.5	829.8	827.1	824.4
137.5°	893.6	893.8	893.2	892.6	891.9	891.3	889.9	887.7	885.5	883.4	881.1
140°	930.6	930.6	929.4	928.2	927.0	925.8	924.1	921.9	919.6	917.5	915.3
142.5°	964.1	963.9	963.1	962.2	961.4	960.5	959.0	956.9	954.7	952.5	950.4
145°	1015.1	1014.9	1013.4	1012.0	1010.5	1009.1	1007.5	1005.8	1004.1	1002.4	1000.7
147.5°	1059.7	1059.1	1058.2	1057.2	1056.2	1055.3	1053.8	1051.7	1049.6	1047.6	1045.6
150°	1087.9	1087.2	1086.2	1085.2	1084.3	1083.3	1082.0	1080.6	1079.1	1077.7	1076.2
152.5°	1116.2	1115.2	1114.1	1112.9	1111.7	1110.5	1109.2	1107.8	1106.3	1104.8	1103.3
155°	1151.9	1150.7	1150.0	1149.2	1148.5	1147.7	1147.1	1146.3	1145.6	1144.8	1144.2
157.5°	1184.8	1183.1	1182.6	1182.2	1181.8	1181.3	1180.9	1180.3	1179.9	1179.4	1178.9
160°	1204.7	1203.2	1203.0	1202.8	1202.5	1202.2	1201.9	1201.4	1200.9	1200.4	1200.0
162.5°	1222.4	1220.8	1220.5	1220.2	1220.0	1219.7	1219.7	1219.5	1219.4	1219.3	1219.2
165°	1245.5	1243.8	1243.8	1243.8	1243.8	1243.8	1243.9	1244.1	1244.3	1244.6	1244.8
167.5°	1264.5	1262.8	1262.8	1262.9	1262.9	1263.0	1263.4	1264.1	1264.8	1265.6	1266.3
170°	1275.0	1273.3	1273.6	1273.8	1274.0	1274.3	1274.8	1275.4	1276.2	1277.0	1277.7
172.5°	1282.9	1281.2	1281.4	1281.7	1282.0	1282.1	1282.6	1283.4	1284.1	1284.9	1285.5
175°	1291.5	1289.7	1290.2	1290.7	1291.2	1291.7	1292.3	1293.0	1293.7	1294.5	1295.2
177.5°	1295.9	1294.8	1295.1	1295.5	1295.9	1296.3	1296.8	1297.4	1298.0	1298.5	1299.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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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°	12.8	10.9	10.9	11.0	12.3	13.5	14.0	15.1	16.7	16.1	16.5
90°	4.1	7.0	9.9	12.8	16.9	22.2	27.6	33.0	38.4	37.8	37.3
92.5°	21.6	23.8	25.9	28.1	29.8	31.0	32.3	33.6	34.8	34.9	35.0
95°	59.4	61.8	64.2	66.6	68.1	68.6	69.1	69.6	70.0	70.0	70.0
97.5°	106.1	108.3	110.5	112.5	114.1	115.0	115.9	116.9	117.8	117.8	117.8
100°	141.0	143.0	144.9	146.8	148.2	148.9	149.6	150.3	151.1	151.1	151.1
102.5°	177.4	179.0	180.5	182.1	183.3	184.3	185.1	186.1	187.0	187.2	187.4
105°	236.1	236.9	237.6	238.3	238.9	239.4	239.9	240.3	240.8	241.4	241.9
107.5°	296.4	297.6	298.6	299.6	300.2	300.2	300.2	300.2	300.2	300.4	300.6
110°	335.4	336.9	338.3	339.8	340.5	340.5	340.5	340.5	340.5	340.5	340.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	377.4	378.9	380.3	381.8	382.5	382.2	382.0	381.8	381.6	381.1	380.5
115°	439.4	440.8	442.3	443.7	444.2	443.7	443.3	442.8	442.3	442.1	441.9
117.5°	501.6	503.6	505.5	507.5	507.7	506.4	505.0	503.7	502.3	501.7	501.1
120°	542.8	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8	540.8	540.8
122.5°	580.9	583.2	585.5	587.9	588.3	587.0	585.6	584.3	582.9	582.3	581.7
125°	639.4	641.6	643.8	645.9	646.7	645.9	645.3	644.5	643.8	643.0	642.3
127.5°	697.1	699.9	702.7	705.4	706.4	705.5	704.6	703.8	702.9	702.0	701.2
130°	733.4	736.6	739.7	742.9	744.2	743.8	743.3	742.8	742.3	741.8	741.3
132.5°	773.2	775.7	778.3	780.9	782.2	782.3	782.4	782.5	782.6	781.6	780.4
135°	827.1	829.8	832.5	835.1	836.7	837.2	837.6	838.2	838.7	838.4	838.2
137.5°	883.4	885.5	887.7	889.9	891.3	891.9	892.6	893.2	893.8	893.6	893.4
140°	917.5	919.6	921.9	924.1	925.8	927.0	928.2	929.4	930.6	930.6	930.6
142.5°	952.5	954.7	956.9	959.0	960.5	961.4	962.2	963.1	963.9	964.1	964.3
145°	1002.4	1004.1	1005.8	1007.5	1009.1	1010.5	1012.0	1013.4	1014.9	1015.1	1015.4
147.5°	1047.6	1049.6	1051.7	1053.8	1055.3	1056.2	1057.2	1058.2	1059.1	1059.7	1060.3
150°	1077.7	1079.1	1080.6	1082.0	1083.3	1084.3	1085.2	1086.2	1087.2	1087.9	1088.6
152.5°	1104.8	1106.3	1107.8	1109.2	1110.5	1111.7	1112.9	1114.1	1115.2	1116.2	1117.1
155°	1144.8	1145.6	1146.3	1147.1	1147.7	1148.5	1149.2	1150.0	1150.7	1151.9	1153.1
157.5°	1179.4	1179.9	1180.3	1180.9	1181.3	1181.8	1182.2	1182.6	1183.1	1184.8	1186.4
160°	1200.4	1200.9	1201.4	1201.9	1202.2	1202.5	1202.8	1203.0	1203.2	1204.7	1206.2
162.5°	1219.3	1219.4	1219.5	1219.7	1219.7	1220.0	1220.2	1220.5	1220.8	1222.4	1224.1
165°	1244.6	1244.3	1244.1	1243.9	1243.8	1243.8	1243.8	1243.8	1243.8	1245.5	1247.2
167.5°	1265.6	1264.8	1264.1	1263.4	1263.0	1262.9	1262.9	1262.8	1262.8	1264.5	1266.2
170°	1277.0	1276.2	1275.4	1274.8	1274.3	1274.0	1273.8	1273.6	1273.3	1275.0	1276.7
172.5°	1284.9	1284.1	1283.4	1282.6	1282.1	1282.0	1281.7	1281.4	1281.2	1282.9	1284.6
175°	1294.5	1293.7	1293.0	1292.3	1291.7	1291.2	1290.7	1290.2	1289.7	1291.5	1293.2
177.5°	1298.5	1298.0	1297.4	1296.8	1296.3	1295.9	1295.5	1295.1	1294.8	1295.9	1297.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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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°	15.8	15.7	15.7	15.8	15.8	15.9	15.5
90°	36.9	36.4	36.3	36.5	36.8	36.9	37.2
92.5°	35.1	35.3	35.3	35.3	35.3	35.4	35.4
95°	70.0	70.0	69.8	69.4	68.9	68.3	67.9
97.5°	117.8	117.8	117.8	117.7	117.7	117.6	117.6
100°	151.1	151.1	151.0	150.7	150.5	150.2	150.0
102.5°	187.6	187.8	187.8	187.5	187.3	187.0	186.8
105°	242.3	242.8	243.1	243.1	243.1	243.1	243.1
107.5°	300.8	301.0	300.5	299.4	298.3	297.2	296.1
110°	340.5	340.5	340.2	339.4	338.7	337.9	337.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	379.9	379.4	378.8	378.2	377.7	377.2	376.6
115°	441.6	441.3	440.8	440.2	439.4	438.7	437.9
117.5°	500.6	500.0	499.4	498.6	497.9	497.1	496.4
120°	540.8	540.8	540.5	539.8	539.0	538.3	537.5
122.5°	581.2	580.5	580.0	579.5	578.9	578.4	577.9
125°	641.6	640.8	640.4	640.1	639.9	639.6	639.4
127.5°	700.2	699.4	698.5	697.8	697.0	696.3	695.4
130°	740.8	740.4	739.6	738.7	737.6	736.7	735.7
132.5°	779.4	778.4	777.4	776.7	775.8	775.1	774.3
135°	837.9	837.6	837.2	836.4	835.8	835.0	834.2
137.5°	893.2	893.1	892.5	891.5	890.5	889.6	888.5
140°	930.6	930.6	930.1	929.2	928.2	927.2	926.2
142.5°	964.5	964.7	964.3	963.3	962.3	961.4	960.4
145°	1015.7	1015.9	1015.5	1014.6	1013.6	1012.6	1011.6
147.5°	1060.7	1061.3	1061.1	1060.2	1059.2	1058.3	1057.4
150°	1089.4	1090.1	1090.1	1089.4	1088.6	1087.9	1087.2
152.5°	1117.9	1118.9	1118.9	1117.9	1117.1	1116.2	1115.2
155°	1154.3	1155.6	1155.7	1155.1	1154.3	1153.6	1152.8
157.5°	1188.1	1189.7	1190.0	1188.7	1187.6	1186.5	1185.2
160°	1207.6	1209.1	1209.3	1208.3	1207.4	1206.4	1205.4
162.5°	1225.7	1227.4	1227.6	1226.4	1225.3	1224.1	1222.9
165°	1248.9	1250.6	1250.8	1249.6	1248.4	1247.2	1245.9
167.5°	1267.9	1269.6	1269.8	1268.6	1267.2	1266.0	1264.8
170°	1278.4	1280.1	1280.3	1278.7	1277.3	1275.8	1274.4
172.5°	1286.3	1288.0	1288.1	1286.7	1285.2	1283.7	1282.2
175°	1294.9	1296.6	1296.7	1295.2	1293.7	1292.3	1290.8
177.5°	1298.3	1299.4	1299.4	1298.3	1297.1	1295.9	1294.8
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4

(END OF REPORT)