

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: P331724-840

Luminaire Tested: **S122RDIP-S865D925U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331724-840
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: S122RDIP-S865D925U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6676.8 lumens
Efficiency: N/A
Efficacy: 110.4 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

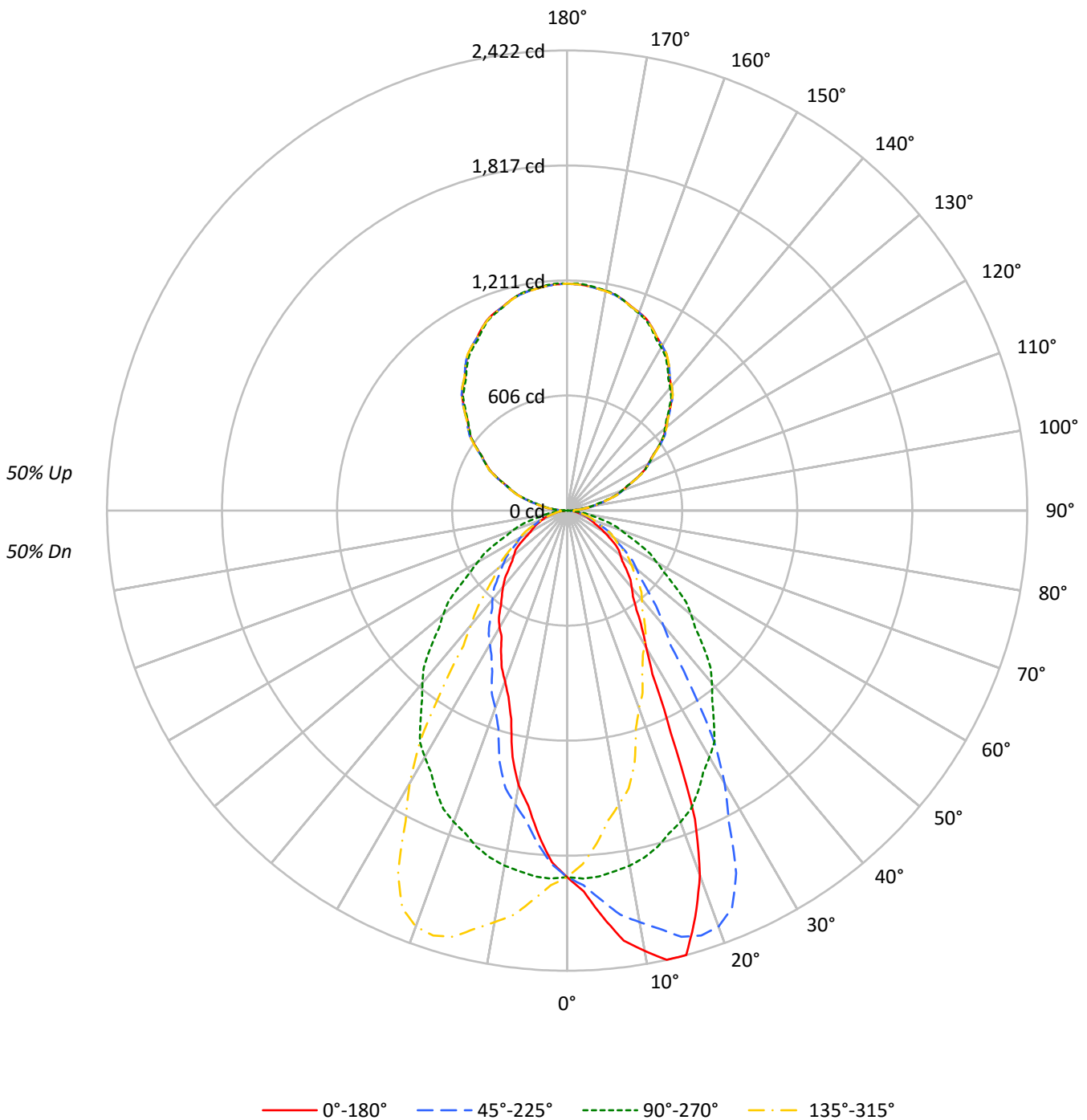
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	94	91	88	91	87	84	82	74	72	70	62	60	59	51	50	49	44																												
2	90	83	78	73	83	77	72	68	66	62	59	55	53	51	46	44	42	38																												
3	83	74	67	62	76	69	63	58	59	54	51	50	47	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	41	60	50	43	38	44	38	34	37	33	30	31	28	26	23																												
7	61	49	41	36	56	46	39	34	40	34	31	34	30	27	29	26	24	21																												
8	56	45	37	32	52	42	35	31	37	31	28	32	27	25	27	24	22	19																												
9	53	41	34	29	49	38	32	28	34	29	25	29	25	22	25	22	20	18																												
10	49	38	31	26	46	36	29	25	31	26	23	27	23	20	23	20	18	16																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.7
10°-20°	509.4	7.6
20°-30°	656.4	9.8
30°-40°	623.8	9.3
40°-50°	534.4	8.0
50°-60°	406.9	6.1
60°-70°	257.2	3.9
70°-80°	128.5	1.9
80°-90°	38.2	0.6
90°-100°	75.7	1.1
100°-110°	235.0	3.5
110°-120°	401.8	6.0
120°-130°	528.3	7.9
130°-140°	593.0	8.9
140°-150°	581.4	8.7
150°-160°	487.7	7.3
160°-170°	323.5	4.8
170°-180°	113.0	1.7
0°-30°	1348.5	20.2
0°-40°	1972.3	29.5
0°-60°	2913.6	43.6
0°-90°	3337.5	50.0
90°-120°	712.5	10.7
90°-150°	2415.2	36.2
90°-180°	3339.0	50.0
0°-180°	6676.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	34	1	34	1	34	16
95°	62	52	62	52	62	70
105°	224	217	224	217	224	235
115°	403	403	403	403	403	398
125°	588	586	588	586	588	525
135°	768	759	768	759	768	591
145°	931	921	931	921	931	582
155°	1061	1053	1061	1053	1061	488
165°	1147	1146	1147	1146	1147	323
175°	1188	1192	1188	1192	1188	113
180°	1194	1194	1194	1194	1194	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	15.5	16.0	15.9	15.9	15.8	15.9	15.9	16.6	16.1	16.7	15.1
90°	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3	34.8	35.2	30.3
92.5°	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2	32.1	32.0	30.9
95°	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5	64.5	64.5	64.0
97.5°	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5	108.5	108.5	107.6
100°	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1	139.1	139.1	138.5
102.5°	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5	172.3	172.2	171.3
105°	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6	222.2	221.7	221.3
107.5°	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7	276.5	276.3	276.3
110°	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2	350.8	351.3	351.5
115°	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7	407.0	407.2	407.6
117.5°	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3	461.8	462.4	463.6
120°	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9	497.9	497.9	499.7
122.5°	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4	536.0	536.5	537.9
125°	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3	591.9	592.6	593.3
127.5°	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4	646.2	647.0	647.8
130°	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4	682.9	683.3	683.8
132.5°	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4	719.4	720.3	720.2
135°	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5	771.7	771.9	771.5
137.5°	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4	822.6	822.7	822.2
140°	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7	856.7	856.7	855.6
142.5°	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7	887.5	887.3	886.5
145°	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6	934.4	934.2	932.9
147.5°	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9	975.4	974.9	974.0
150°	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8	999.9
152.5°	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5	1025.4
155°	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5	1060.4	1059.1	1058.5
157.5°	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1	1090.6	1089.0	1088.6
160°	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2	1108.9	1107.5	1107.3
162.5°	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7	1125.2	1123.7	1123.5
165°	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0	1146.4	1144.9	1144.9
167.5°	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5	1164.0	1162.4	1162.5
170°	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2	1173.7	1172.0	1172.3
172.5°	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5	1180.9	1179.3	1179.5
175°	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3	1188.7	1187.2	1187.6
177.5°	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8	1192.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	14.2	13.7	12.7	11.5	11.5	11.4	13.6	15.8	14.1	13.0	12.5
90°	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0	19.9	21.9	23.8
95°	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4	54.6	56.9	59.1
97.5°	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7	97.8	99.7	101.7
100°	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9	129.8	131.6	133.4
102.5°	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9	163.3	164.7	166.1
105°	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7	217.3	218.0	218.7
107.5°	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9	272.9	273.9	274.9
110°	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4	308.7	310.0	311.4



TEST NUMBER: P331724-840

CATALOG NUMBER: S122RDIP-S865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1	347.4	348.8	350.1
115°	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1	404.5	405.8	407.2
117.5°	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0	461.7	463.5	465.3
120°	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	499.7	501.4	503.2
122.5°	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5	534.6	536.8	539.0
125°	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5	588.5	590.6	592.6
127.5°	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1	641.7	644.3	646.8
130°	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2	675.1	678.0	681.0
132.5°	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3	711.7	714.1	716.4
135°	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9	761.3	763.8	766.3
137.5°	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1	813.0	815.1	817.1
140°	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5	844.6	846.6	848.6
142.5°	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7	876.8	878.8	880.8
145°	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1	922.7	924.2	925.8
147.5°	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4	964.3	966.2	968.1
150°	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7	992.0	993.3	994.7
152.5°	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6	1017.0	1018.3	1019.7
155°	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2	1053.8	1054.5	1055.2
157.5°	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2	1085.6	1086.1	1086.5
160°	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6	1105.0	1105.4	1105.9
162.5°	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3	1122.4	1122.5	1122.6
165°	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9	1145.7	1145.4	1145.2
167.5°	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6	1165.0	1164.3	1163.6
170°	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1	1175.4	1174.8	1174.1
172.5°	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4	1182.7	1182.0	1181.3
175°	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2	1191.5	1190.8	1190.2
177.5°	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9	1195.3	1194.8	1194.3
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331724-840

CATALOG NUMBER: S122RDIP-S865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	12.5	12.7	12.7	13.6	14.6	15.0	15.0	14.3	14.3	14.2	13.6
90°	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3	33.9	33.5	33.3
92.5°	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2	32.3	32.4	32.5
95°	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5	64.5	64.5	64.2
97.5°	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5	108.5	108.5	108.5
100°	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1	139.1	139.1	139.0
102.5°	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5	172.7	172.9	172.8
105°	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6	223.1	223.5	223.7
107.5°	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7	276.9	277.0	276.6
110°	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.1



TEST NUMBER: P331724-840

CATALOG NUMBER: S122RDIP-S865D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2	349.7	349.2	348.6
115°	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7	406.5	406.3	405.8
117.5°	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3	460.8	460.2	459.6
120°	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9	497.9	497.9	497.6
122.5°	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4	534.9	534.4	533.9
125°	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3	590.6	589.9	589.5
127.5°	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4	644.6	643.8	643.0
130°	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4	682.0	681.5	680.9
132.5°	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4	717.4	716.4	715.6
135°	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5	771.3	771.0	770.6
137.5°	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4	822.2	822.0	821.5
140°	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7	856.7	856.7	856.2
142.5°	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7	887.8	888.0	887.7
145°	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6	934.9	935.1	934.8
147.5°	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9	976.4	976.9	976.7
150°	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4
152.5°	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0
155°	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5	1062.6	1063.7	1063.9
157.5°	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1	1093.6	1095.1	1095.3
160°	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2	1111.6	1113.0	1113.2
162.5°	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7	1128.2	1129.7	1130.0
165°	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0	1149.5	1151.1	1151.3
167.5°	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5	1167.1	1168.6	1168.8
170°	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2	1176.8	1178.3	1178.4
172.5°	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5	1184.1	1185.6	1185.7
175°	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3	1191.8	1193.5	1193.6
177.5°	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331724-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	13.7	13.2	13.7	13.3	13.7	13.2	13.7	13.6	14.2	14.3	14.3
90°	33.6	33.8	34.0	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3
92.5°	32.5	32.5	32.6	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2
95°	63.8	63.4	62.9	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5
97.5°	108.4	108.4	108.3	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5
100°	138.8	138.6	138.3	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1
102.5°	172.6	172.4	172.2	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5
105°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6
107.5°	275.6	274.6	273.6	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7
110°	312.5	311.7	311.0	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	348.2	347.7	347.2	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2
115°	405.2	404.5	403.7	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7
117.5°	459.0	458.3	457.6	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3
120°	496.9	496.1	495.5	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9
122.5°	533.4	532.9	532.4	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4
125°	589.3	589.0	588.8	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3
127.5°	642.3	641.6	640.9	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4
130°	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4
132.5°	714.9	714.2	713.5	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4
135°	769.9	769.3	768.6	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5
137.5°	820.6	819.7	818.8	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4
140°	855.3	854.3	853.5	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7
142.5°	886.8	885.9	884.9	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7
145°	933.9	933.0	932.1	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6
147.5°	975.9	975.0	974.2	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9
150°	1002.8	1002.1	1001.4	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1
152.5°	1029.1	1028.2	1027.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2
155°	1063.2	1062.6	1061.9	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5
157.5°	1094.3	1093.2	1092.1	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1
160°	1112.3	1111.4	1110.4	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2
162.5°	1128.9	1127.8	1126.8	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7
165°	1150.2	1149.1	1148.0	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0
167.5°	1167.7	1166.5	1165.4	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5
170°	1177.1	1175.8	1174.4	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2
172.5°	1184.4	1183.1	1181.6	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5
175°	1192.2	1190.8	1189.5	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3
177.5°	1195.1	1194.0	1192.9	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	15.0	15.0	14.6	13.6	12.7	12.7	12.5	12.5	13.0	14.1	15.8
90°	34.8	35.2	30.3	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0
92.5°	32.1	32.0	30.9	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0
95°	64.5	64.5	64.0	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4
97.5°	108.5	108.5	107.6	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7
100°	139.1	139.1	138.5	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9
102.5°	172.3	172.2	171.3	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9
105°	222.2	221.7	221.3	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7
107.5°	276.5	276.3	276.3	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9
110°	313.5	313.5	313.5	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	350.8	351.3	351.5	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1
115°	407.0	407.2	407.6	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1
117.5°	461.8	462.4	463.6	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0
120°	497.9	497.9	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9
122.5°	536.0	536.5	537.9	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5
125°	591.9	592.6	593.3	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5
127.5°	646.2	647.0	647.8	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1
130°	682.9	683.3	683.8	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2
132.5°	719.4	720.3	720.2	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3
135°	771.7	771.9	771.5	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9
137.5°	822.6	822.7	822.2	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1
140°	856.7	856.7	855.6	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5
142.5°	887.5	887.3	886.5	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7
145°	934.4	934.2	932.9	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1
147.5°	975.4	974.9	974.0	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4
150°	1001.4	1000.8	999.9	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7
152.5°	1027.4	1026.5	1025.4	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6
155°	1060.4	1059.1	1058.5	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2
157.5°	1090.6	1089.0	1088.6	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2
160°	1108.9	1107.5	1107.3	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6
162.5°	1125.2	1123.7	1123.5	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3
165°	1146.4	1144.9	1144.9	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9
167.5°	1164.0	1162.4	1162.5	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6
170°	1173.7	1172.0	1172.3	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1
172.5°	1180.9	1179.3	1179.5	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4
175°	1188.7	1187.2	1187.6	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2
177.5°	1192.9	1191.8	1192.1	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.6	11.4	11.5	11.5	12.7	13.7	14.2	15.1	16.7	16.1	16.6
90°	3.7	6.4	9.1	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3
92.5°	19.9	21.9	23.8	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2
95°	54.6	56.9	59.1	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5
97.5°	97.8	99.7	101.7	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5
100°	129.8	131.6	133.4	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1
102.5°	163.3	164.7	166.1	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5
105°	217.3	218.0	218.7	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6
107.5°	272.9	273.9	274.9	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7
110°	308.7	310.0	311.4	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	347.4	348.8	350.1	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2
115°	404.5	405.8	407.2	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7
117.5°	461.7	463.5	465.3	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3
120°	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9
122.5°	534.6	536.8	539.0	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4
125°	588.5	590.6	592.6	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3
127.5°	641.7	644.3	646.8	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4
130°	675.1	678.0	681.0	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4
132.5°	711.7	714.1	716.4	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4
135°	761.3	763.8	766.3	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5
137.5°	813.0	815.1	817.1	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4
140°	844.6	846.6	848.6	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7
142.5°	876.8	878.8	880.8	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7
145°	922.7	924.2	925.8	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6
147.5°	964.3	966.2	968.1	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9
150°	992.0	993.3	994.7	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1
152.5°	1017.0	1018.3	1019.7	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2
155°	1053.8	1054.5	1055.2	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5
157.5°	1085.6	1086.1	1086.5	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1
160°	1105.0	1105.4	1105.9	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2
162.5°	1122.4	1122.5	1122.6	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7
165°	1145.7	1145.4	1145.2	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0
167.5°	1165.0	1164.3	1163.6	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5
170°	1175.4	1174.8	1174.1	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2
172.5°	1182.7	1182.0	1181.3	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5
175°	1191.5	1190.8	1190.2	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3
177.5°	1195.3	1194.8	1194.3	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	15.9	15.9	15.8	15.9	15.9	16.0	15.5
90°	33.9	33.5	33.3	33.6	33.8	34.0	34.2
92.5°	32.3	32.4	32.5	32.5	32.5	32.6	32.6
95°	64.5	64.5	64.2	63.8	63.4	62.9	62.5
97.5°	108.5	108.5	108.5	108.4	108.4	108.3	108.3
100°	139.1	139.1	139.0	138.8	138.6	138.3	138.0
102.5°	172.7	172.9	172.8	172.6	172.4	172.2	172.0
105°	223.1	223.5	223.7	223.7	223.7	223.7	223.7
107.5°	276.9	277.0	276.6	275.6	274.6	273.6	272.5
110°	313.5	313.5	313.1	312.5	311.7	311.0	310.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.7	349.2	348.6	348.2	347.7	347.2	346.7
115°	406.5	406.3	405.8	405.2	404.5	403.7	403.1
117.5°	460.8	460.2	459.6	459.0	458.3	457.6	457.0
120°	497.9	497.9	497.6	496.9	496.1	495.5	494.8
122.5°	534.9	534.4	533.9	533.4	532.9	532.4	531.9
125°	590.6	589.9	589.5	589.3	589.0	588.8	588.5
127.5°	644.6	643.8	643.0	642.3	641.6	640.9	640.2
130°	682.0	681.5	680.9	679.9	679.0	678.1	677.2
132.5°	717.4	716.4	715.6	714.9	714.2	713.5	712.8
135°	771.3	771.0	770.6	769.9	769.3	768.6	767.9
137.5°	822.2	822.0	821.5	820.6	819.7	818.8	817.9
140°	856.7	856.7	856.2	855.3	854.3	853.5	852.6
142.5°	887.8	888.0	887.7	886.8	885.9	884.9	884.0
145°	934.9	935.1	934.8	933.9	933.0	932.1	931.2
147.5°	976.4	976.9	976.7	975.9	975.0	974.2	973.3
150°	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8
152.5°	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5
155°	1062.6	1063.7	1063.9	1063.2	1062.6	1061.9	1061.2
157.5°	1093.6	1095.1	1095.3	1094.3	1093.2	1092.1	1091.1
160°	1111.6	1113.0	1113.2	1112.3	1111.4	1110.4	1109.5
162.5°	1128.2	1129.7	1130.0	1128.9	1127.8	1126.8	1125.7
165°	1149.5	1151.1	1151.3	1150.2	1149.1	1148.0	1146.9
167.5°	1167.1	1168.6	1168.8	1167.7	1166.5	1165.4	1164.2
170°	1176.8	1178.3	1178.4	1177.1	1175.8	1174.4	1173.1
172.5°	1184.1	1185.6	1185.7	1184.4	1183.1	1181.6	1180.3
175°	1191.8	1193.5	1193.6	1192.2	1190.8	1189.5	1188.2
177.5°	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3

(END OF REPORT)