

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: P331759-940

Luminaire Tested: **SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331759-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7241.1 lumens
Efficiency: N/A
Efficacy: 101.0 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

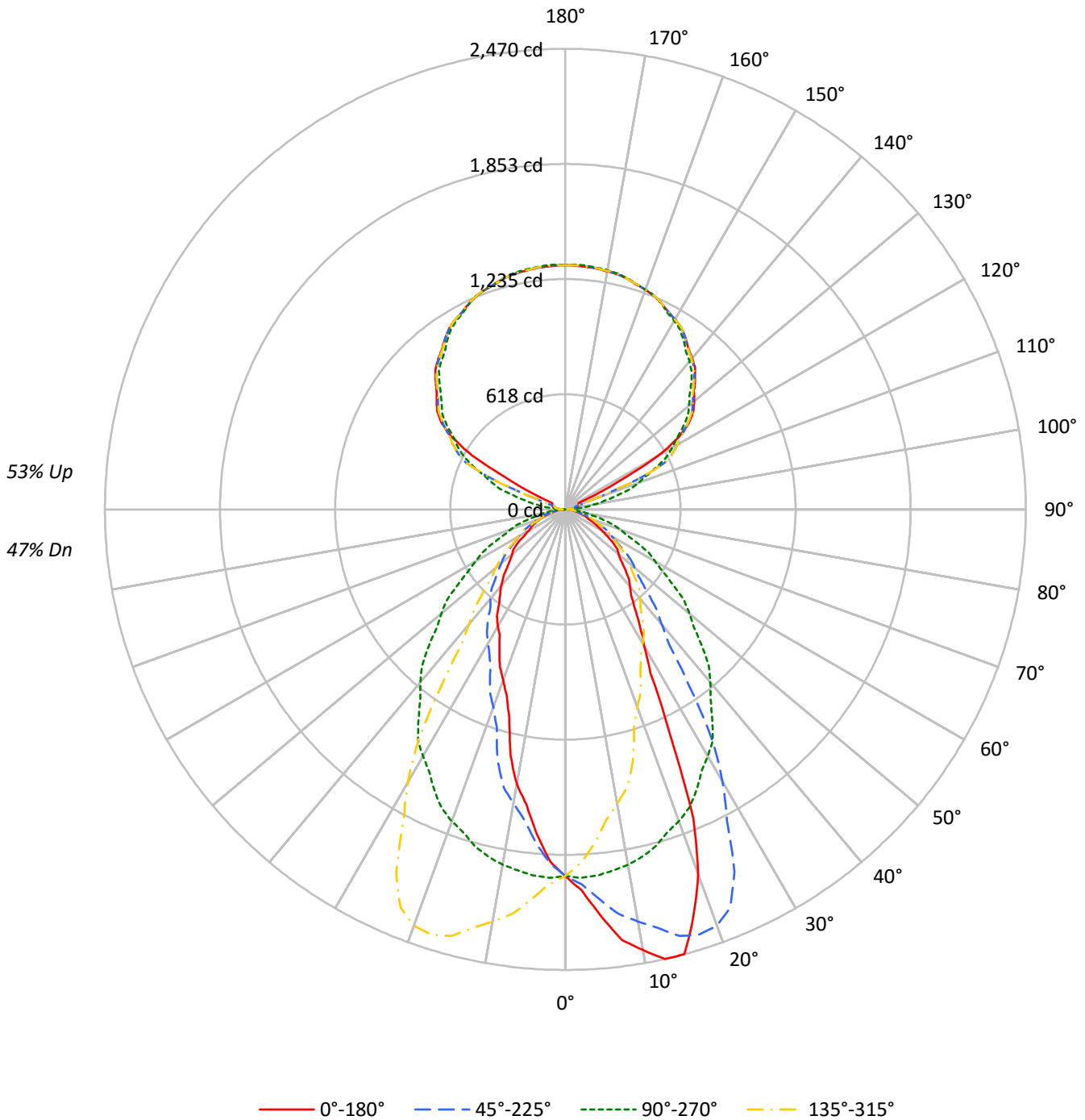
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	43	42	40	36
3	82	73	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	70	61	54	49	52	47	43	43	40	37	36	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	24	26	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	26	45	35	29	25	30	25	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31752	31752	31752	31752
5°	35462	31951	28329	31951
10°	39346	31727	24556	31727
15°	41279	31263	19348	31263
20°	35787	30574	16744	30574
25°	23469	29630	14949	29630
30°	15797	28486	13530	28486
35°	12796	27045	12203	27045
40°	11377	25478	11291	25478
45°	10298	23640	10079	23640
50°	9372	21815	9339	21815
55°	8811	19792	8695	19792
60°	7369	17938	7282	17938
65°	6212	16290	7049	16290
70°	5740	14549	6647	14549
75°	5371	12664	6138	12664
80°	4956	10423	5467	10423
85°	4557	8225	4798	8225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.6
10°-20°	519.5	7.2
20°-30°	669.4	9.2
30°-40°	636.1	8.8
40°-50°	544.9	7.5
50°-60°	415.0	5.7
60°-70°	262.3	3.6
70°-80°	131.0	1.8
80°-90°	37.3	0.5
90°-100°	43.7	0.6
100°-110°	160.2	2.2
110°-120°	428.4	5.9
120°-130°	707.1	9.8
130°-140°	752.0	10.4
140°-150°	699.0	9.7
150°-160°	562.0	7.8
160°-170°	362.1	5.0
170°-180°	124.6	1.7
0°-30°	1375.3	19.0
0°-40°	2011.4	27.8
0°-60°	2971.3	41.0
0°-90°	3402.0	47.0
90°-120°	632.3	8.7
90°-150°	2790.4	38.5
90°-180°	3839.0	53.0
0°-180°	7241.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2188	1971	1748	1971	2188	216
15°	2470	1870	1158	1870	2470	666
25°	1317	1663	839	1663	1317	625
35°	649	1372	619	1372	649	415
45°	451	1035	441	1035	451	349
55°	313	703	309	703	313	275
65°	163	426	184	426	163	166
75°	86	203	98	203	86	91
85°	25	44	26	44	25	27
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	72	288	72	288	72	75
115°	78	545	78	545	78	195
125°	810	771	810	771	810	701
135°	985	954	985	954	985	759
145°	1123	1106	1123	1106	1123	702
155°	1219	1218	1219	1218	1219	563
165°	1281	1284	1281	1284	1281	362
175°	1305	1313	1305	1313	1305	124
180°	1310	1310	1310	1310	1310	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2046.4	2048.1	2049.7	2045.9	2045.9	2042.6	2035.5	2030.0	2014.7	2012.5	2012.5
5°	2188.0	2186.7	2189.3	2180.5	2168.2	2165.4	2152.5	2135.4	2117.6	2097.8	2093.7
7.5°	2328.8	2326.7	2321.2	2319.8	2310.3	2289.6	2268.8	2246.5	2217.0	2188.2	2173.6
10°	2399.9	2422.4	2408.7	2384.8	2389.6	2357.5	2340.4	2311.0	2286.4	2243.4	2233.8
12.5°	2469.8	2478.7	2474.3	2460.8	2454.6	2432.3	2409.2	2383.7	2338.3	2299.6	2266.0
15°	2469.5	2482.5	2485.9	2481.8	2485.3	2483.9	2471.6	2450.4	2410.7	2368.4	2331.5
17.5°	2287.2	2296.2	2318.6	2333.8	2353.0	2393.4	2413.3	2421.2	2415.3	2391.1	2365.1
20°	2082.8	2067.7	2130.6	2162.8	2190.0	2258.3	2317.1	2339.7	2375.9	2375.3	2368.4
22.5°	1793.1	1796.6	1856.2	1894.4	1974.2	2042.5	2109.4	2194.3	2264.4	2310.7	2337.8
25°	1317.4	1343.5	1402.8	1454.8	1543.6	1670.7	1786.2	1920.1	2046.6	2146.3	2241.3
27.5°	989.4	991.4	1038.5	1086.5	1139.2	1243.4	1388.8	1548.7	1728.9	1877.7	2048.7
30°	847.3	843.2	863.0	892.4	937.5	1018.2	1127.5	1284.7	1464.4	1688.5	1888.0
32.5°	746.7	747.0	761.9	783.6	821.1	875.5	950.4	1078.0	1247.9	1468.2	1702.2
35°	649.2	648.5	659.4	675.1	690.8	725.7	776.9	843.9	960.7	1166.4	1405.6
37.5°	579.2	582.2	587.5	597.4	614.7	634.1	664.9	709.8	793.1	914.7	1115.7
40°	539.8	541.2	548.7	556.9	567.1	582.2	607.4	643.7	704.5	801.6	948.4
42.5°	503.7	505.2	510.4	518.1	526.2	541.2	562.1	593.4	642.7	718.5	839.6
45°	451.0	451.0	455.8	459.2	468.1	481.7	498.8	524.8	558.9	615.0	695.6
47.5°	401.5	401.6	404.8	410.7	416.3	427.0	443.7	464.9	489.8	533.2	602.0
50°	373.1	373.8	375.9	380.6	384.1	393.6	406.6	425.0	451.0	484.5	541.9
52.5°	350.2	349.7	352.3	354.4	356.7	363.6	373.3	389.5	412.7	441.8	489.4
55°	313.0	310.2	314.3	317.7	319.8	322.5	328.0	338.2	358.0	382.6	418.2
57.5°	266.5	265.4	268.3	271.4	277.9	285.3	289.9	296.4	306.7	324.3	359.5
60°	228.2	228.2	234.3	236.4	244.0	253.5	263.1	268.6	278.8	290.4	316.4
62.5°	194.3	194.9	197.8	199.8	204.0	215.8	229.2	241.2	250.9	262.0	279.2
65°	162.6	164.0	164.0	165.3	168.1	170.9	176.3	185.8	203.0	218.6	231.7
67.5°	138.0	138.5	138.8	140.2	140.9	143.9	146.1	150.3	154.3	169.2	185.3
70°	121.6	123.7	123.0	124.4	125.0	126.4	129.1	131.2	137.3	140.8	150.3
72.5°	106.3	107.8	107.7	108.5	110.3	110.6	112.7	114.8	118.8	121.6	126.8
75°	86.1	85.4	86.1	87.5	88.2	88.8	88.8	91.6	93.6	96.3	99.8
77.5°	66.4	67.1	67.0	67.1	67.2	68.5	68.3	69.6	71.6	72.9	74.6
80°	53.3	53.9	53.3	53.9	54.7	55.4	54.7	55.4	57.4	58.8	58.8
82.5°	41.3	41.4	41.8	42.0	42.1	42.3	43.2	43.3	44.9	44.6	45.1
85°	24.6	23.9	23.9	23.9	24.6	25.3	24.6	24.6	25.3	25.3	25.3
87.5°	13.8	14.4	14.3	14.2	14.1	13.9	13.7	14.1	13.3	13.6	12.8
90°	25.6	25.1	24.8	24.3	23.9	23.2	22.1	21.0	20.0	19.0	17.3
92.5°	25.6	25.3	25.1	24.9	24.6	24.2	23.6	23.1	22.6	22.0	21.1
95°	40.8	40.9	41.2	41.4	41.6	41.2	40.1	39.1	38.0	37.0	35.5
97.5°	54.4	54.1	53.9	53.7	53.4	52.9	52.0	51.2	50.3	49.5	46.1
100°	63.5	63.1	62.7	62.2	61.8	60.8	59.1	57.4	55.7	54.0	50.5
102.5°	68.0	67.5	66.9	66.3	65.7	64.3	62.2	59.9	57.8	55.6	85.5
105°	72.1	71.2	70.4	69.6	68.7	67.1	64.7	62.4	60.1	57.8	115.3
107.5°	74.1	73.3	72.4	71.6	70.8	71.5	73.8	76.2	78.6	81.0	149.9
110°	74.9	74.0	73.2	72.3	71.5	81.6	102.7	123.8	144.8	165.9	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	75.6	75.0	74.3	73.7	72.9	111.0	187.9	264.7	341.6	418.4	433.5
115°	77.8	92.9	108.1	123.2	138.4	194.7	292.3	389.8	487.3	584.9	579.6
117.5°	317.4	367.2	417.1	466.9	516.7	553.5	577.0	600.7	624.2	647.8	644.2
120°	578.3	606.6	635.1	663.5	692.0	705.0	702.4	699.9	697.3	694.8	691.1
122.5°	721.6	727.1	732.6	738.2	743.6	745.6	744.1	742.6	741.1	739.6	735.5
125°	810.5	809.9	809.2	808.6	808.0	806.9	805.4	804.0	802.5	801.0	797.0
127.5°	866.6	866.5	866.4	866.2	866.1	865.0	862.8	860.7	858.5	856.4	853.4
130°	901.5	901.7	901.9	902.1	902.3	901.3	898.9	896.6	894.3	892.0	889.7
132.5°	935.6	935.9	936.0	936.2	936.5	935.6	933.6	931.6	929.6	927.6	925.3
135°	984.9	985.3	985.7	986.1	986.6	985.7	983.6	981.5	979.5	977.3	975.4
137.5°	1029.8	1030.6	1031.3	1032.0	1032.7	1032.0	1029.9	1027.9	1025.8	1023.8	1021.6
140°	1057.9	1058.9	1060.0	1061.0	1062.1	1061.7	1059.8	1057.9	1056.0	1054.1	1051.8
142.5°	1085.2	1086.3	1087.3	1088.3	1089.4	1089.0	1087.4	1085.6	1083.9	1082.2	1079.5
145°	1123.3	1124.4	1125.4	1126.5	1127.5	1127.3	1125.8	1124.4	1122.8	1121.4	1117.8
147.5°	1156.8	1157.7	1158.6	1159.5	1160.4	1160.3	1159.2	1158.1	1157.0	1155.9	1152.4
150°	1177.3	1178.4	1179.5	1180.4	1181.5	1181.4	1180.2	1178.9	1177.7	1176.3	1173.0
152.5°	1194.8	1196.1	1197.6	1198.9	1200.3	1200.4	1199.2	1197.8	1196.6	1195.3	1192.1
155°	1219.1	1220.8	1222.4	1224.1	1225.7	1226.0	1224.8	1223.4	1222.2	1220.9	1218.4
157.5°	1241.2	1242.9	1244.5	1246.2	1247.8	1247.9	1246.4	1245.0	1243.6	1242.2	1240.4
160°	1254.1	1255.6	1257.0	1258.6	1260.0	1260.1	1258.8	1257.6	1256.3	1255.1	1253.8
162.5°	1264.7	1266.5	1268.4	1270.2	1271.9	1272.2	1270.7	1269.3	1267.8	1266.4	1265.3
165°	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6	1285.0	1283.6	1282.1	1280.7	1280.1
167.5°	1290.7	1292.6	1294.5	1296.4	1298.2	1298.5	1297.0	1295.6	1294.1	1292.6	1292.0
170°	1296.7	1298.7	1300.6	1302.4	1304.3	1304.6	1303.1	1301.6	1300.1	1298.7	1298.2
172.5°	1301.3	1303.2	1305.1	1307.0	1308.9	1309.1	1307.6	1306.2	1304.7	1303.2	1302.8
175°	1305.3	1307.4	1309.5	1311.6	1313.8	1314.0	1312.6	1311.1	1309.7	1308.1	1307.7
177.5°	1307.8	1309.3	1310.8	1312.3	1313.8	1314.0	1312.8	1311.6	1310.5	1309.3	1309.1
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2013.7	2009.2	2005.5	1995.6	1990.7	1979.7	1978.1	1977.5	1963.4	1949.6	1945.8
5°	2082.8	2071.8	2055.5	2036.3	2016.5	1996.0	1982.4	1971.4	1944.0	1918.1	1903.1
7.5°	2152.5	2129.0	2100.7	2064.5	2034.3	2000.4	1975.2	1952.7	1913.9	1876.7	1851.6
10°	2204.4	2166.1	2128.5	2078.7	2039.7	2001.4	1966.0	1935.2	1891.4	1842.3	1807.4
12.5°	2236.7	2194.6	2142.8	2094.0	2043.5	1994.9	1947.3	1907.8	1856.5	1805.6	1764.2
15°	2280.3	2235.2	2172.3	2102.6	2037.6	1974.2	1919.5	1870.3	1803.3	1742.5	1691.9
17.5°	2316.0	2253.9	2186.4	2105.8	2030.6	1949.8	1879.5	1816.6	1742.0	1668.7	1609.1
20°	2327.4	2265.9	2188.0	2107.4	2018.6	1923.6	1847.7	1779.4	1699.4	1619.4	1551.1
22.5°	2320.3	2272.4	2185.9	2089.4	1998.3	1899.0	1813.3	1734.0	1645.3	1563.7	1484.4
25°	2272.1	2255.7	2173.6	2068.4	1964.5	1849.1	1750.0	1663.2	1562.1	1474.6	1388.5
27.5°	2159.5	2194.9	2144.1	2032.0	1916.6	1792.8	1681.4	1582.6	1477.7	1379.2	1293.4
30°	2051.4	2132.6	2110.8	2006.9	1877.8	1756.1	1631.1	1527.9	1415.9	1314.7	1230.0
32.5°	1903.2	2037.6	2058.9	1971.9	1838.4	1704.8	1573.7	1471.1	1354.1	1247.5	1164.9
35°	1667.3	1868.2	1960.4	1905.1	1771.2	1627.0	1491.7	1372.1	1254.5	1149.3	1067.4
37.5°	1385.9	1659.6	1813.3	1817.2	1694.3	1544.4	1397.0	1278.3	1158.0	1054.6	966.0
40°	1203.4	1499.9	1700.1	1744.5	1640.7	1478.7	1329.7	1208.8	1091.3	990.2	888.3
42.5°	1039.4	1334.8	1580.9	1658.1	1575.7	1414.8	1265.2	1138.8	1024.6	928.9	824.9
45°	840.5	1098.8	1370.0	1508.1	1462.3	1313.3	1155.5	1035.3	927.9	845.3	745.5
47.5°	709.0	891.1	1153.6	1340.2	1339.4	1203.5	1048.2	933.0	833.5	756.0	675.3
50°	634.1	792.6	1014.8	1226.5	1244.3	1130.2	982.6	868.5	775.6	694.3	629.4
52.5°	566.9	697.5	897.2	1100.3	1150.8	1052.0	908.8	803.4	713.3	638.5	582.9
55°	479.0	580.1	731.8	921.8	998.4	928.6	801.6	703.1	630.0	567.1	519.3
57.5°	405.2	481.1	602.8	755.7	844.9	801.0	696.2	616.3	553.7	496.8	459.1
60°	358.7	420.9	524.1	651.9	750.3	719.5	630.0	555.5	502.2	453.1	417.5
62.5°	315.0	368.5	456.9	560.6	650.8	638.1	565.0	502.5	455.8	411.0	380.8
65°	253.5	292.5	361.5	442.8	515.2	521.4	468.8	426.4	384.7	349.2	322.5
67.5°	201.9	227.3	275.9	344.4	398.7	418.0	385.9	353.6	320.5	293.0	269.9
70°	170.1	190.6	226.1	281.5	331.4	351.9	333.5	308.2	279.5	256.9	237.1
72.5°	137.9	157.8	184.0	224.7	267.4	289.6	283.2	265.0	241.7	223.0	204.3
75°	103.9	110.0	127.8	155.2	188.6	207.8	212.5	203.0	184.5	170.1	159.2
77.5°	76.8	80.5	89.0	103.3	125.2	142.2	149.3	148.1	135.5	127.1	116.8
80°	61.5	63.6	67.7	73.8	90.2	107.3	112.1	112.1	103.2	99.8	89.5
82.5°	46.7	48.2	50.7	54.1	61.8	76.7	82.0	83.1	77.5	72.9	64.9
85°	26.7	25.9	27.4	29.4	30.8	34.9	43.1	44.4	43.1	37.5	35.5
87.5°	12.4	12.7	12.3	11.3	11.4	11.5	13.7	16.1	14.4	13.1	12.5
90°	15.6	13.9	12.2	10.3	7.9	5.6	3.3	1.0	3.3	5.6	7.9
92.5°	20.3	19.4	18.6	18.3	18.5	18.7	18.9	19.2	18.9	18.7	18.5
95°	34.1	32.5	31.0	33.8	40.8	47.7	54.7	61.6	54.7	47.7	40.8
97.5°	42.6	39.2	35.8	44.0	63.5	83.1	102.7	122.3	102.7	83.1	63.5
100°	46.9	43.2	39.7	52.3	81.2	110.0	138.9	167.8	138.9	110.0	81.2
102.5°	115.5	145.4	175.4	193.4	199.5	205.6	211.7	217.8	211.7	205.6	199.5
105°	172.8	230.3	287.8	313.4	307.1	300.8	294.5	288.2	294.5	300.8	307.1
107.5°	218.9	287.8	356.9	388.8	383.6	378.5	373.4	368.4	373.4	378.5	383.6
110°	287.7	348.5	409.4	437.7	433.2	428.8	424.4	419.9	424.4	428.8	433.2



TEST NUMBER: P331759-940

CATALOG NUMBER: SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	448.5	463.5	478.6	484.1	480.2	476.3	472.4	468.5	472.4	476.3	480.2
115°	574.4	569.1	563.8	559.4	555.8	552.2	548.7	545.1	548.7	552.2	555.8
117.5°	640.6	636.9	633.3	629.5	625.5	621.5	617.5	613.5	617.5	621.5	625.5
120°	687.2	683.5	679.7	676.2	673.1	669.9	666.7	663.5	666.7	669.9	673.1
122.5°	731.3	727.2	723.1	719.3	716.0	712.7	709.4	706.1	709.4	712.7	716.0
125°	793.0	789.0	785.0	781.6	778.9	776.1	773.4	770.7	773.4	776.1	778.9
127.5°	850.3	847.4	844.4	841.4	838.4	835.4	832.3	829.3	832.3	835.4	838.4
130°	887.3	885.0	882.7	879.9	876.6	873.2	869.8	866.4	869.8	873.2	876.6
132.5°	923.0	920.7	918.4	915.8	912.9	910.1	907.2	904.3	907.2	910.1	912.9
135°	973.5	971.6	969.7	967.1	963.8	960.4	957.0	953.6	957.0	960.4	963.8
137.5°	1019.5	1017.4	1015.1	1012.9	1010.6	1008.2	1005.8	1003.4	1005.8	1008.2	1010.6
140°	1049.5	1047.1	1044.8	1042.9	1041.2	1039.5	1037.8	1036.1	1037.8	1039.5	1041.2
142.5°	1076.8	1074.2	1071.6	1069.4	1067.9	1066.4	1064.9	1063.4	1064.9	1066.4	1067.9
145°	1114.2	1110.6	1107.1	1105.4	1105.6	1105.8	1106.0	1106.3	1106.0	1105.8	1105.6
147.5°	1148.8	1145.3	1141.7	1140.4	1141.2	1142.0	1142.8	1143.6	1142.8	1142.0	1141.2
150°	1169.7	1166.3	1162.9	1162.0	1163.4	1164.9	1166.4	1167.9	1166.4	1164.9	1163.4
152.5°	1188.9	1185.7	1182.5	1181.8	1183.4	1185.0	1186.7	1188.3	1186.7	1185.0	1183.4
155°	1215.8	1213.4	1210.9	1210.5	1212.4	1214.3	1216.2	1218.1	1216.2	1214.3	1212.4
157.5°	1238.6	1236.9	1235.1	1235.0	1236.6	1238.2	1239.8	1241.4	1239.8	1238.2	1236.6
160°	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1253.8	1252.5	1251.2
162.5°	1264.3	1263.1	1262.0	1262.1	1263.4	1264.6	1266.0	1267.2	1266.0	1264.6	1263.4
165°	1279.4	1278.7	1278.1	1278.4	1279.7	1280.9	1282.2	1283.5	1282.2	1280.9	1279.7
167.5°	1291.4	1290.8	1290.2	1290.6	1291.8	1293.1	1294.4	1295.7	1294.4	1293.1	1291.8
170°	1297.8	1297.4	1297.0	1297.4	1298.7	1299.9	1301.2	1302.4	1301.2	1299.9	1298.7
172.5°	1302.3	1302.0	1301.5	1302.0	1303.2	1304.5	1305.7	1307.0	1305.7	1304.5	1303.2
175°	1307.3	1306.9	1306.4	1307.0	1308.5	1309.9	1311.4	1312.9	1311.4	1309.9	1308.5
177.5°	1308.9	1308.8	1308.6	1309.1	1310.3	1311.4	1312.7	1313.8	1312.7	1311.4	1310.3
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1938.8	1934.9	1927.8	1916.8	1910.3	1898.8	1891.1	1895.5	1896.7	1895.5	1894.4
5°	1886.7	1872.3	1852.5	1833.4	1815.6	1796.4	1785.6	1780.7	1771.2	1765.7	1763.0
7.5°	1823.6	1798.9	1770.9	1737.6	1709.2	1679.6	1664.5	1656.9	1637.4	1626.7	1617.4
10°	1776.6	1737.7	1709.7	1666.0	1639.3	1600.4	1573.7	1574.4	1547.7	1532.7	1521.8
12.5°	1724.7	1681.9	1635.3	1596.0	1559.0	1527.7	1495.5	1482.6	1454.3	1439.8	1410.2
15°	1638.6	1588.8	1539.5	1486.2	1448.7	1400.2	1353.7	1297.0	1251.2	1211.6	1200.6
17.5°	1544.6	1482.8	1433.5	1370.9	1306.5	1224.9	1171.1	1138.2	1110.5	1089.7	1074.1
20°	1480.1	1417.2	1364.6	1270.3	1183.5	1128.2	1088.5	1063.3	1034.6	1012.0	999.7
22.5°	1412.3	1346.7	1275.0	1169.7	1102.1	1057.7	1022.3	993.3	973.8	956.3	945.0
25°	1316.1	1244.3	1126.1	1053.6	999.0	952.5	927.9	910.2	889.7	865.8	854.9
27.5°	1214.4	1100.3	1015.4	961.5	909.4	879.1	857.0	830.5	812.2	801.4	790.1
30°	1138.4	1024.3	958.1	899.3	862.4	828.8	802.9	787.9	770.1	751.6	744.1
32.5°	1053.6	962.5	899.0	850.1	812.6	784.1	763.6	739.2	726.4	715.1	699.3
35°	948.4	879.4	821.4	781.8	746.2	723.0	699.0	684.7	661.5	651.9	645.8
37.5°	859.3	799.5	756.2	714.3	686.2	660.5	645.9	623.0	613.0	599.7	586.7
40°	809.0	750.3	708.6	674.4	643.0	623.8	605.4	587.0	571.9	565.8	550.1
42.5°	757.7	709.8	668.2	630.7	609.7	589.4	566.1	552.5	537.0	527.0	517.3
45°	686.7	644.4	608.9	578.1	554.8	533.7	518.6	496.1	487.2	467.4	459.2
47.5°	624.5	585.1	551.2	521.9	499.3	485.4	463.4	445.8	431.6	419.5	408.9
50°	580.1	547.3	514.5	488.6	468.1	448.3	425.7	416.8	394.9	388.8	382.6
52.5°	539.7	508.5	478.5	453.1	432.6	413.3	393.4	381.8	367.1	361.0	356.4
55°	483.1	453.1	424.4	401.8	381.3	361.5	349.2	334.8	328.0	323.2	317.7
57.5°	426.2	399.2	377.2	354.4	333.8	318.0	303.8	295.2	288.1	281.8	275.3
60°	390.2	364.2	344.4	323.2	302.0	289.0	278.1	267.9	259.7	250.1	247.4
62.5°	351.9	329.2	311.0	290.4	272.0	260.1	249.7	240.0	230.2	216.2	212.4
65°	299.3	281.5	262.4	245.3	228.9	217.3	202.2	191.4	187.3	185.8	185.2
67.5°	251.7	235.0	218.6	201.0	186.1	175.3	167.7	166.0	163.2	162.4	160.4
70°	220.1	204.3	187.9	171.5	157.2	155.2	152.4	149.6	146.2	144.9	143.5
72.5°	191.6	175.3	158.9	145.8	139.6	137.1	134.4	131.6	129.3	128.0	127.1
75°	147.0	131.9	120.9	116.2	112.7	110.7	106.6	104.5	103.2	101.1	100.4
77.5°	105.8	97.3	92.3	89.3	85.7	83.5	81.1	79.1	77.7	77.2	76.2
80°	80.6	76.5	73.1	69.0	67.7	64.9	64.2	62.2	62.9	60.8	60.8
82.5°	62.6	57.4	54.6	52.6	51.3	49.0	48.4	47.4	47.5	46.0	46.0
85°	32.1	30.8	29.4	28.0	28.0	25.9	26.7	25.9	25.9	24.6	23.9
87.5°	12.4	12.3	11.5	11.9	12.2	11.9	12.2	11.9	12.0	12.3	11.9
90°	10.3	12.2	13.9	15.6	17.3	19.0	20.0	21.0	22.1	23.2	23.9
92.5°	18.3	18.6	19.4	20.3	21.1	22.0	22.6	23.1	23.6	24.2	24.6
95°	33.8	31.0	32.5	34.1	35.5	37.0	38.0	39.1	40.1	41.2	41.6
97.5°	44.0	35.8	39.2	42.6	46.1	49.5	50.3	51.2	52.0	52.9	53.4
100°	52.3	39.7	43.2	46.9	50.5	54.0	55.7	57.4	59.1	60.8	61.8
102.5°	193.4	175.4	145.4	115.5	85.5	55.6	57.8	59.9	62.2	64.3	65.7
105°	313.4	287.8	230.3	172.8	115.3	57.8	60.1	62.4	64.7	67.1	68.7
107.5°	388.8	356.9	287.8	218.9	149.9	81.0	78.6	76.2	73.8	71.5	70.8
110°	437.7	409.4	348.5	287.7	226.8	165.9	144.8	123.8	102.7	81.6	71.5



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CATALOG NUMBER: SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	484.1	478.6	463.5	448.5	433.5	418.4	341.6	264.7	187.9	111.0	72.9
115°	559.4	563.8	569.1	574.4	579.6	584.9	487.3	389.8	292.3	194.7	138.4
117.5°	629.5	633.3	636.9	640.6	644.2	647.8	624.2	600.7	577.0	553.5	516.7
120°	676.2	679.7	683.5	687.2	691.1	694.8	697.3	699.9	702.4	705.0	692.0
122.5°	719.3	723.1	727.2	731.3	735.5	739.6	741.1	742.6	744.1	745.6	743.6
125°	781.6	785.0	789.0	793.0	797.0	801.0	802.5	804.0	805.4	806.9	808.0
127.5°	841.4	844.4	847.4	850.3	853.4	856.4	858.5	860.7	862.8	865.0	866.1
130°	879.9	882.7	885.0	887.3	889.7	892.0	894.3	896.6	898.9	901.3	902.3
132.5°	915.8	918.4	920.7	923.0	925.3	927.6	929.6	931.6	933.6	935.6	936.5
135°	967.1	969.7	971.6	973.5	975.4	977.3	979.5	981.5	983.6	985.7	986.6
137.5°	1012.9	1015.1	1017.4	1019.5	1021.6	1023.8	1025.8	1027.9	1029.9	1032.0	1032.7
140°	1042.9	1044.8	1047.1	1049.5	1051.8	1054.1	1056.0	1057.9	1059.8	1061.7	1062.1
142.5°	1069.4	1071.6	1074.2	1076.8	1079.5	1082.2	1083.9	1085.6	1087.4	1089.0	1089.4
145°	1105.4	1107.1	1110.6	1114.2	1117.8	1121.4	1122.8	1124.4	1125.8	1127.3	1127.5
147.5°	1140.4	1141.7	1145.3	1148.8	1152.4	1155.9	1157.0	1158.1	1159.2	1160.3	1160.4
150°	1162.0	1162.9	1166.3	1169.7	1173.0	1176.3	1177.7	1178.9	1180.2	1181.4	1181.5
152.5°	1181.8	1182.5	1185.7	1188.9	1192.1	1195.3	1196.6	1197.8	1199.2	1200.4	1200.3
155°	1210.5	1210.9	1213.4	1215.8	1218.4	1220.9	1222.2	1223.4	1224.8	1226.0	1225.7
157.5°	1235.0	1235.1	1236.9	1238.6	1240.4	1242.2	1243.6	1245.0	1246.4	1247.9	1247.8
160°	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1256.3	1257.6	1258.8	1260.1	1260.0
162.5°	1262.1	1262.0	1263.1	1264.3	1265.3	1266.4	1267.8	1269.3	1270.7	1272.2	1271.9
165°	1278.4	1278.1	1278.7	1279.4	1280.1	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6
167.5°	1290.6	1290.2	1290.8	1291.4	1292.0	1292.6	1294.1	1295.6	1297.0	1298.5	1298.2
170°	1297.4	1297.0	1297.4	1297.8	1298.2	1298.7	1300.1	1301.6	1303.1	1304.6	1304.3
172.5°	1302.0	1301.5	1302.0	1302.3	1302.8	1303.2	1304.7	1306.2	1307.6	1309.1	1308.9
175°	1307.0	1306.4	1306.9	1307.3	1307.7	1308.1	1309.7	1311.1	1312.6	1314.0	1313.8
177.5°	1309.1	1308.6	1308.8	1308.9	1309.1	1309.3	1310.5	1311.6	1312.8	1314.0	1313.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1888.5	1889.5	1887.9	1889.0	1887.9	1889.5	1888.5	1894.4	1895.5	1896.7	1895.5
5°	1759.5	1751.3	1750.0	1747.9	1750.0	1751.3	1759.5	1763.0	1765.7	1771.2	1780.7
7.5°	1605.7	1604.5	1601.1	1596.3	1601.1	1604.5	1605.7	1617.4	1626.7	1637.4	1656.9
10°	1506.7	1503.3	1502.6	1497.8	1502.6	1503.3	1506.7	1521.8	1532.7	1547.7	1574.4
12.5°	1390.8	1368.9	1366.5	1354.6	1366.5	1368.9	1390.8	1410.2	1439.8	1454.3	1482.6
15°	1184.2	1180.1	1166.4	1157.5	1166.4	1180.1	1184.2	1200.6	1211.6	1251.2	1297.0
17.5°	1066.1	1052.8	1048.5	1046.6	1048.5	1052.8	1066.1	1074.1	1089.7	1110.5	1138.2
20°	990.2	977.9	975.8	974.5	975.8	977.9	990.2	999.7	1012.0	1034.6	1063.3
22.5°	937.6	924.8	919.4	915.3	919.4	924.8	937.6	945.0	956.3	973.8	993.3
25°	848.0	843.2	840.5	839.1	840.5	843.2	848.0	854.9	865.8	889.7	910.2
27.5°	777.9	767.4	765.4	761.8	765.4	767.4	777.9	790.1	801.4	812.2	830.5
30°	738.0	734.6	729.8	725.7	729.8	734.6	738.0	744.1	751.6	770.1	787.9
32.5°	691.0	688.1	683.9	682.0	683.9	688.1	691.0	699.3	715.1	726.4	739.2
35°	638.9	629.4	625.3	619.1	625.3	629.4	638.9	645.8	651.9	661.5	684.7
37.5°	583.8	578.8	573.0	575.1	573.0	578.8	583.8	586.7	599.7	613.0	623.0
40°	541.2	537.8	536.5	535.7	536.5	537.8	541.2	550.1	565.8	571.9	587.0
42.5°	507.3	497.8	494.3	494.2	494.3	497.8	507.3	517.3	527.0	537.0	552.5
45°	455.8	446.9	440.8	441.4	440.8	446.9	455.8	459.2	467.4	487.2	496.1
47.5°	403.1	402.8	399.0	400.1	399.0	402.8	403.1	408.9	419.5	431.6	445.8
50°	377.9	373.8	371.0	371.8	371.0	373.8	377.9	382.6	388.8	394.9	416.8
52.5°	353.8	350.3	348.1	351.0	348.1	350.3	353.8	356.4	361.0	367.1	381.8
55°	314.3	310.2	309.5	308.9	309.5	310.2	314.3	317.7	323.2	328.0	334.8
57.5°	270.2	267.4	263.3	261.5	263.3	267.4	270.2	275.3	281.8	288.1	295.2
60°	238.4	233.0	226.1	225.5	226.1	233.0	238.4	247.4	250.1	259.7	267.9
62.5°	209.5	208.4	207.1	206.9	207.1	208.4	209.5	212.4	216.2	230.2	240.0
65°	183.8	183.2	183.8	184.5	183.8	183.2	183.8	185.2	185.8	187.3	191.4
67.5°	160.2	158.9	157.7	158.3	157.7	158.9	160.2	160.4	162.4	163.2	166.0
70°	142.1	141.4	140.8	140.8	140.8	141.4	142.1	143.5	144.9	146.2	149.6
72.5°	124.7	124.5	123.9	123.2	123.9	124.5	124.7	127.1	128.0	129.3	131.6
75°	99.8	98.4	98.4	98.4	98.4	98.4	99.8	100.4	101.1	103.2	104.5
77.5°	76.0	75.3	74.6	74.1	74.6	75.3	76.0	76.2	77.2	77.7	79.1
80°	60.1	59.5	58.8	58.8	58.8	59.5	60.1	60.8	60.8	62.9	62.2
82.5°	45.9	45.2	45.1	44.6	45.1	45.2	45.9	46.0	46.0	47.5	47.4
85°	24.6	25.3	24.6	25.9	24.6	25.3	24.6	23.9	24.6	25.9	25.9
87.5°	11.9	11.5	12.1	11.7	12.1	11.5	11.9	11.9	12.3	12.0	11.9
90°	24.3	24.8	25.1	25.6	25.1	24.8	24.3	23.9	23.2	22.1	21.0
92.5°	24.9	25.1	25.3	25.6	25.3	25.1	24.9	24.6	24.2	23.6	23.1
95°	41.4	41.2	40.9	40.8	40.9	41.2	41.4	41.6	41.2	40.1	39.1
97.5°	53.7	53.9	54.1	54.4	54.1	53.9	53.7	53.4	52.9	52.0	51.2
100°	62.2	62.7	63.1	63.5	63.1	62.7	62.2	61.8	60.8	59.1	57.4
102.5°	66.3	66.9	67.5	68.0	67.5	66.9	66.3	65.7	64.3	62.2	59.9
105°	69.6	70.4	71.2	72.1	71.2	70.4	69.6	68.7	67.1	64.7	62.4
107.5°	71.6	72.4	73.3	74.1	73.3	72.4	71.6	70.8	71.5	73.8	76.2
110°	72.3	73.2	74.0	74.9	74.0	73.2	72.3	71.5	81.6	102.7	123.8



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CATALOG NUMBER: SA2XXRDIP-C1005D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	73.7	74.3	75.0	75.6	75.0	74.3	73.7	72.9	111.0	187.9	264.7
115°	123.2	108.1	92.9	77.8	92.9	108.1	123.2	138.4	194.7	292.3	389.8
117.5°	466.9	417.1	367.2	317.4	367.2	417.1	466.9	516.7	553.5	577.0	600.7
120°	663.5	635.1	606.6	578.3	606.6	635.1	663.5	692.0	705.0	702.4	699.9
122.5°	738.2	732.6	727.1	721.6	727.1	732.6	738.2	743.6	745.6	744.1	742.6
125°	808.6	809.2	809.9	810.5	809.9	809.2	808.6	808.0	806.9	805.4	804.0
127.5°	866.2	866.4	866.5	866.6	866.5	866.4	866.2	866.1	865.0	862.8	860.7
130°	902.1	901.9	901.7	901.5	901.7	901.9	902.1	902.3	901.3	898.9	896.6
132.5°	936.2	936.0	935.9	935.6	935.9	936.0	936.2	936.5	935.6	933.6	931.6
135°	986.1	985.7	985.3	984.9	985.3	985.7	986.1	986.6	985.7	983.6	981.5
137.5°	1032.0	1031.3	1030.6	1029.8	1030.6	1031.3	1032.0	1032.7	1032.0	1029.9	1027.9
140°	1061.0	1060.0	1058.9	1057.9	1058.9	1060.0	1061.0	1062.1	1061.7	1059.8	1057.9
142.5°	1088.3	1087.3	1086.3	1085.2	1086.3	1087.3	1088.3	1089.4	1089.0	1087.4	1085.6
145°	1126.5	1125.4	1124.4	1123.3	1124.4	1125.4	1126.5	1127.5	1127.3	1125.8	1124.4
147.5°	1159.5	1158.6	1157.7	1156.8	1157.7	1158.6	1159.5	1160.4	1160.3	1159.2	1158.1
150°	1180.4	1179.5	1178.4	1177.3	1178.4	1179.5	1180.4	1181.5	1181.4	1180.2	1178.9
152.5°	1198.9	1197.6	1196.1	1194.8	1196.1	1197.6	1198.9	1200.3	1200.4	1199.2	1197.8
155°	1224.1	1222.4	1220.8	1219.1	1220.8	1222.4	1224.1	1225.7	1226.0	1224.8	1223.4
157.5°	1246.2	1244.5	1242.9	1241.2	1242.9	1244.5	1246.2	1247.8	1247.9	1246.4	1245.0
160°	1258.6	1257.0	1255.6	1254.1	1255.6	1257.0	1258.6	1260.0	1260.1	1258.8	1257.6
162.5°	1270.2	1268.4	1266.5	1264.7	1266.5	1268.4	1270.2	1271.9	1272.2	1270.7	1269.3
165°	1285.0	1283.6	1282.1	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6	1285.0	1283.6
167.5°	1296.4	1294.5	1292.6	1290.7	1292.6	1294.5	1296.4	1298.2	1298.5	1297.0	1295.6
170°	1302.4	1300.6	1298.7	1296.7	1298.7	1300.6	1302.4	1304.3	1304.6	1303.1	1301.6
172.5°	1307.0	1305.1	1303.2	1301.3	1303.2	1305.1	1307.0	1308.9	1309.1	1307.6	1306.2
175°	1311.6	1309.5	1307.4	1305.3	1307.4	1309.5	1311.6	1313.8	1314.0	1312.6	1311.1
177.5°	1312.3	1310.8	1309.3	1307.8	1309.3	1310.8	1312.3	1313.8	1314.0	1312.8	1311.6
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1891.1	1898.8	1910.3	1916.8	1927.8	1934.9	1938.8	1945.8	1949.6	1963.4	1977.5
5°	1785.6	1796.4	1815.6	1833.4	1852.5	1872.3	1886.7	1903.1	1918.1	1944.0	1971.4
7.5°	1664.5	1679.6	1709.2	1737.6	1770.9	1798.9	1823.6	1851.6	1876.7	1913.9	1952.7
10°	1573.7	1600.4	1639.3	1666.0	1709.7	1737.7	1776.6	1807.4	1842.3	1891.4	1935.2
12.5°	1495.5	1527.7	1559.0	1596.0	1635.3	1681.9	1724.7	1764.2	1805.6	1856.5	1907.8
15°	1353.7	1400.2	1448.7	1486.2	1539.5	1588.8	1638.6	1691.9	1742.5	1803.3	1870.3
17.5°	1171.1	1224.9	1306.5	1370.9	1433.5	1482.8	1544.6	1609.1	1668.7	1742.0	1816.6
20°	1088.5	1128.2	1183.5	1270.3	1364.6	1417.2	1480.1	1551.1	1619.4	1699.4	1779.4
22.5°	1022.3	1057.7	1102.1	1169.7	1275.0	1346.7	1412.3	1484.4	1563.7	1645.3	1734.0
25°	927.9	952.5	999.0	1053.6	1126.1	1244.3	1316.1	1388.5	1474.6	1562.1	1663.2
27.5°	857.0	879.1	909.4	961.5	1015.4	1100.3	1214.4	1293.4	1379.2	1477.7	1582.6
30°	802.9	828.8	862.4	899.3	958.1	1024.3	1138.4	1230.0	1314.7	1415.9	1527.9
32.5°	763.6	784.1	812.6	850.1	899.0	962.5	1053.6	1164.9	1247.5	1354.1	1471.1
35°	699.0	723.0	746.2	781.8	821.4	879.4	948.4	1067.4	1149.3	1254.5	1372.1
37.5°	645.9	660.5	686.2	714.3	756.2	799.5	859.3	966.0	1054.6	1158.0	1278.3
40°	605.4	623.8	643.0	674.4	708.6	750.3	809.0	888.3	990.2	1091.3	1208.8
42.5°	566.1	589.4	609.7	630.7	668.2	709.8	757.7	824.9	928.9	1024.6	1138.8
45°	518.6	533.7	554.8	578.1	608.9	644.4	686.7	745.5	845.3	927.9	1035.3
47.5°	463.4	485.4	499.3	521.9	551.2	585.1	624.5	675.3	756.0	833.5	933.0
50°	425.7	448.3	468.1	488.6	514.5	547.3	580.1	629.4	694.3	775.6	868.5
52.5°	393.4	413.3	432.6	453.1	478.5	508.5	539.7	582.9	638.5	713.3	803.4
55°	349.2	361.5	381.3	401.8	424.4	453.1	483.1	519.3	567.1	630.0	703.1
57.5°	303.8	318.0	333.8	354.4	377.2	399.2	426.2	459.1	496.8	553.7	616.3
60°	278.1	289.0	302.0	323.2	344.4	364.2	390.2	417.5	453.1	502.2	555.5
62.5°	249.7	260.1	272.0	290.4	311.0	329.2	351.9	380.8	411.0	455.8	502.5
65°	202.2	217.3	228.9	245.3	262.4	281.5	299.3	322.5	349.2	384.7	426.4
67.5°	167.7	175.3	186.1	201.0	218.6	235.0	251.7	269.9	293.0	320.5	353.6
70°	152.4	155.2	157.2	171.5	187.9	204.3	220.1	237.1	256.9	279.5	308.2
72.5°	134.4	137.1	139.6	145.8	158.9	175.3	191.6	204.3	223.0	241.7	265.0
75°	106.6	110.7	112.7	116.2	120.9	131.9	147.0	159.2	170.1	184.5	203.0
77.5°	81.1	83.5	85.7	89.3	92.3	97.3	105.8	116.8	127.1	135.5	148.1
80°	64.2	64.9	67.7	69.0	73.1	76.5	80.6	89.5	99.8	103.2	112.1
82.5°	48.4	49.0	51.3	52.6	54.6	57.4	62.6	64.9	72.9	77.5	83.1
85°	26.7	25.9	28.0	28.0	29.4	30.8	32.1	35.5	37.5	43.1	44.4
87.5°	12.2	11.9	12.2	11.9	11.5	12.3	12.4	12.5	13.1	14.4	16.1
90°	20.0	19.0	17.3	15.6	13.9	12.2	10.3	7.9	5.6	3.3	1.0
92.5°	22.6	22.0	21.1	20.3	19.4	18.6	18.3	18.5	18.7	18.9	19.2
95°	38.0	37.0	35.5	34.1	32.5	31.0	33.8	40.8	47.7	54.7	61.6
97.5°	50.3	49.5	46.1	42.6	39.2	35.8	44.0	63.5	83.1	102.7	122.3
100°	55.7	54.0	50.5	46.9	43.2	39.7	52.3	81.2	110.0	138.9	167.8
102.5°	57.8	55.6	85.5	115.5	145.4	175.4	193.4	199.5	205.6	211.7	217.8
105°	60.1	57.8	115.3	172.8	230.3	287.8	313.4	307.1	300.8	294.5	288.2
107.5°	78.6	81.0	149.9	218.9	287.8	356.9	388.8	383.6	378.5	373.4	368.4
110°	144.8	165.9	226.8	287.7	348.5	409.4	437.7	433.2	428.8	424.4	419.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	341.6	418.4	433.5	448.5	463.5	478.6	484.1	480.2	476.3	472.4	468.5
115°	487.3	584.9	579.6	574.4	569.1	563.8	559.4	555.8	552.2	548.7	545.1
117.5°	624.2	647.8	644.2	640.6	636.9	633.3	629.5	625.5	621.5	617.5	613.5
120°	697.3	694.8	691.1	687.2	683.5	679.7	676.2	673.1	669.9	666.7	663.5
122.5°	741.1	739.6	735.5	731.3	727.2	723.1	719.3	716.0	712.7	709.4	706.1
125°	802.5	801.0	797.0	793.0	789.0	785.0	781.6	778.9	776.1	773.4	770.7
127.5°	858.5	856.4	853.4	850.3	847.4	844.4	841.4	838.4	835.4	832.3	829.3
130°	894.3	892.0	889.7	887.3	885.0	882.7	879.9	876.6	873.2	869.8	866.4
132.5°	929.6	927.6	925.3	923.0	920.7	918.4	915.8	912.9	910.1	907.2	904.3
135°	979.5	977.3	975.4	973.5	971.6	969.7	967.1	963.8	960.4	957.0	953.6
137.5°	1025.8	1023.8	1021.6	1019.5	1017.4	1015.1	1012.9	1010.6	1008.2	1005.8	1003.4
140°	1056.0	1054.1	1051.8	1049.5	1047.1	1044.8	1042.9	1041.2	1039.5	1037.8	1036.1
142.5°	1083.9	1082.2	1079.5	1076.8	1074.2	1071.6	1069.4	1067.9	1066.4	1064.9	1063.4
145°	1122.8	1121.4	1117.8	1114.2	1110.6	1107.1	1105.4	1105.6	1105.8	1106.0	1106.3
147.5°	1157.0	1155.9	1152.4	1148.8	1145.3	1141.7	1140.4	1141.2	1142.0	1142.8	1143.6
150°	1177.7	1176.3	1173.0	1169.7	1166.3	1162.9	1162.0	1163.4	1164.9	1166.4	1167.9
152.5°	1196.6	1195.3	1192.1	1188.9	1185.7	1182.5	1181.8	1183.4	1185.0	1186.7	1188.3
155°	1222.2	1220.9	1218.4	1215.8	1213.4	1210.9	1210.5	1212.4	1214.3	1216.2	1218.1
157.5°	1243.6	1242.2	1240.4	1238.6	1236.9	1235.1	1235.0	1236.6	1238.2	1239.8	1241.4
160°	1256.3	1255.1	1253.8	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1
162.5°	1267.8	1266.4	1265.3	1264.3	1263.1	1262.0	1262.1	1263.4	1264.6	1266.0	1267.2
165°	1282.1	1280.7	1280.1	1279.4	1278.7	1278.1	1278.4	1279.7	1280.9	1282.2	1283.5
167.5°	1294.1	1292.6	1292.0	1291.4	1290.8	1290.2	1290.6	1291.8	1293.1	1294.4	1295.7
170°	1300.1	1298.7	1298.2	1297.8	1297.4	1297.0	1297.4	1298.7	1299.9	1301.2	1302.4
172.5°	1304.7	1303.2	1302.8	1302.3	1302.0	1301.5	1302.0	1303.2	1304.5	1305.7	1307.0
175°	1309.7	1308.1	1307.7	1307.3	1306.9	1306.4	1307.0	1308.5	1309.9	1311.4	1312.9
177.5°	1310.5	1309.3	1309.1	1308.9	1308.8	1308.6	1309.1	1310.3	1311.4	1312.7	1313.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1978.1	1979.7	1990.7	1995.6	2005.5	2009.2	2013.7	2012.5	2012.5	2014.7	2030.0
5°	1982.4	1996.0	2016.5	2036.3	2055.5	2071.8	2082.8	2093.7	2097.8	2117.6	2135.4
7.5°	1975.2	2000.4	2034.3	2064.5	2100.7	2129.0	2152.5	2173.6	2188.2	2217.0	2246.5
10°	1966.0	2001.4	2039.7	2078.7	2128.5	2166.1	2204.4	2233.8	2243.4	2286.4	2311.0
12.5°	1947.3	1994.9	2043.5	2094.0	2142.8	2194.6	2236.7	2266.0	2299.6	2338.3	2383.7
15°	1919.5	1974.2	2037.6	2102.6	2172.3	2235.2	2280.3	2331.5	2368.4	2410.7	2450.4
17.5°	1879.5	1949.8	2030.6	2105.8	2186.4	2253.9	2316.0	2365.1	2391.1	2415.3	2421.2
20°	1847.7	1923.6	2018.6	2107.4	2188.0	2265.9	2327.4	2368.4	2375.3	2375.9	2339.7
22.5°	1813.3	1899.0	1998.3	2089.4	2185.9	2272.4	2320.3	2337.8	2310.7	2264.4	2194.3
25°	1750.0	1849.1	1964.5	2068.4	2173.6	2255.7	2272.1	2241.3	2146.3	2046.6	1920.1
27.5°	1681.4	1792.8	1916.6	2032.0	2144.1	2194.9	2159.5	2048.7	1877.7	1728.9	1548.7
30°	1631.1	1756.1	1877.8	2006.9	2110.8	2132.6	2051.4	1888.0	1688.5	1464.4	1284.7
32.5°	1573.7	1704.8	1838.4	1971.9	2058.9	2037.6	1903.2	1702.2	1468.2	1247.9	1078.0
35°	1491.7	1627.0	1771.2	1905.1	1960.4	1868.2	1667.3	1405.6	1166.4	960.7	843.9
37.5°	1397.0	1544.4	1694.3	1817.2	1813.3	1659.6	1385.9	1115.7	914.7	793.1	709.8
40°	1329.7	1478.7	1640.7	1744.5	1700.1	1499.9	1203.4	948.4	801.6	704.5	643.7
42.5°	1265.2	1414.8	1575.7	1658.1	1580.9	1334.8	1039.4	839.6	718.5	642.7	593.4
45°	1155.5	1313.3	1462.3	1508.1	1370.0	1098.8	840.5	695.6	615.0	558.9	524.8
47.5°	1048.2	1203.5	1339.4	1340.2	1153.6	891.1	709.0	602.0	533.2	489.8	464.9
50°	982.6	1130.2	1244.3	1226.5	1014.8	792.6	634.1	541.9	484.5	451.0	425.0
52.5°	908.8	1052.0	1150.8	1100.3	897.2	697.5	566.9	489.4	441.8	412.7	389.5
55°	801.6	928.6	998.4	921.8	731.8	580.1	479.0	418.2	382.6	358.0	338.2
57.5°	696.2	801.0	844.9	755.7	602.8	481.1	405.2	359.5	324.3	306.7	296.4
60°	630.0	719.5	750.3	651.9	524.1	420.9	358.7	316.4	290.4	278.8	268.6
62.5°	565.0	638.1	650.8	560.6	456.9	368.5	315.0	279.2	262.0	250.9	241.2
65°	468.8	521.4	515.2	442.8	361.5	292.5	253.5	231.7	218.6	203.0	185.8
67.5°	385.9	418.0	398.7	344.4	275.9	227.3	201.9	185.3	169.2	154.3	150.3
70°	333.5	351.9	331.4	281.5	226.1	190.6	170.1	150.3	140.8	137.3	131.2
72.5°	283.2	289.6	267.4	224.7	184.0	157.8	137.9	126.8	121.6	118.8	114.8
75°	212.5	207.8	188.6	155.2	127.8	110.0	103.9	99.8	96.3	93.6	91.6
77.5°	149.3	142.2	125.2	103.3	89.0	80.5	76.8	74.6	72.9	71.6	69.6
80°	112.1	107.3	90.2	73.8	67.7	63.6	61.5	58.8	58.8	57.4	55.4
82.5°	82.0	76.7	61.8	54.1	50.7	48.2	46.7	45.1	44.6	44.9	43.3
85°	43.1	34.9	30.8	29.4	27.4	25.9	26.7	25.3	25.3	25.3	24.6
87.5°	13.7	11.5	11.4	11.3	12.3	12.7	12.4	12.8	13.6	13.3	14.1
90°	3.3	5.6	7.9	10.3	12.2	13.9	15.6	17.3	19.0	20.0	21.0
92.5°	18.9	18.7	18.5	18.3	18.6	19.4	20.3	21.1	22.0	22.6	23.1
95°	54.7	47.7	40.8	33.8	31.0	32.5	34.1	35.5	37.0	38.0	39.1
97.5°	102.7	83.1	63.5	44.0	35.8	39.2	42.6	46.1	49.5	50.3	51.2
100°	138.9	110.0	81.2	52.3	39.7	43.2	46.9	50.5	54.0	55.7	57.4
102.5°	211.7	205.6	199.5	193.4	175.4	145.4	115.5	85.5	55.6	57.8	59.9
105°	294.5	300.8	307.1	313.4	287.8	230.3	172.8	115.3	57.8	60.1	62.4
107.5°	373.4	378.5	383.6	388.8	356.9	287.8	218.9	149.9	81.0	78.6	76.2
110°	424.4	428.8	433.2	437.7	409.4	348.5	287.7	226.8	165.9	144.8	123.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	472.4	476.3	480.2	484.1	478.6	463.5	448.5	433.5	418.4	341.6	264.7
115°	548.7	552.2	555.8	559.4	563.8	569.1	574.4	579.6	584.9	487.3	389.8
117.5°	617.5	621.5	625.5	629.5	633.3	636.9	640.6	644.2	647.8	624.2	600.7
120°	666.7	669.9	673.1	676.2	679.7	683.5	687.2	691.1	694.8	697.3	699.9
122.5°	709.4	712.7	716.0	719.3	723.1	727.2	731.3	735.5	739.6	741.1	742.6
125°	773.4	776.1	778.9	781.6	785.0	789.0	793.0	797.0	801.0	802.5	804.0
127.5°	832.3	835.4	838.4	841.4	844.4	847.4	850.3	853.4	856.4	858.5	860.7
130°	869.8	873.2	876.6	879.9	882.7	885.0	887.3	889.7	892.0	894.3	896.6
132.5°	907.2	910.1	912.9	915.8	918.4	920.7	923.0	925.3	927.6	929.6	931.6
135°	957.0	960.4	963.8	967.1	969.7	971.6	973.5	975.4	977.3	979.5	981.5
137.5°	1005.8	1008.2	1010.6	1012.9	1015.1	1017.4	1019.5	1021.6	1023.8	1025.8	1027.9
140°	1037.8	1039.5	1041.2	1042.9	1044.8	1047.1	1049.5	1051.8	1054.1	1056.0	1057.9
142.5°	1064.9	1066.4	1067.9	1069.4	1071.6	1074.2	1076.8	1079.5	1082.2	1083.9	1085.6
145°	1106.0	1105.8	1105.6	1105.4	1107.1	1110.6	1114.2	1117.8	1121.4	1122.8	1124.4
147.5°	1142.8	1142.0	1141.2	1140.4	1141.7	1145.3	1148.8	1152.4	1155.9	1157.0	1158.1
150°	1166.4	1164.9	1163.4	1162.0	1162.9	1166.3	1169.7	1173.0	1176.3	1177.7	1178.9
152.5°	1186.7	1185.0	1183.4	1181.8	1182.5	1185.7	1188.9	1192.1	1195.3	1196.6	1197.8
155°	1216.2	1214.3	1212.4	1210.5	1210.9	1213.4	1215.8	1218.4	1220.9	1222.2	1223.4
157.5°	1239.8	1238.2	1236.6	1235.0	1235.1	1236.9	1238.6	1240.4	1242.2	1243.6	1245.0
160°	1253.8	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1256.3	1257.6
162.5°	1266.0	1264.6	1263.4	1262.1	1262.0	1263.1	1264.3	1265.3	1266.4	1267.8	1269.3
165°	1282.2	1280.9	1279.7	1278.4	1278.1	1278.7	1279.4	1280.1	1280.7	1282.1	1283.6
167.5°	1294.4	1293.1	1291.8	1290.6	1290.2	1290.8	1291.4	1292.0	1292.6	1294.1	1295.6
170°	1301.2	1299.9	1298.7	1297.4	1297.0	1297.4	1297.8	1298.2	1298.7	1300.1	1301.6
172.5°	1305.7	1304.5	1303.2	1302.0	1301.5	1302.0	1302.3	1302.8	1303.2	1304.7	1306.2
175°	1311.4	1309.9	1308.5	1307.0	1306.4	1306.9	1307.3	1307.7	1308.1	1309.7	1311.1
177.5°	1312.7	1311.4	1310.3	1309.1	1308.6	1308.8	1308.9	1309.1	1309.3	1310.5	1311.6
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	2035.5	2042.6	2045.9	2045.9	2049.7	2048.1	2046.4
5°	2152.5	2165.4	2168.2	2180.5	2189.3	2186.7	2188.0
7.5°	2268.8	2289.6	2310.3	2319.8	2321.2	2326.7	2328.8
10°	2340.4	2357.5	2389.6	2384.8	2408.7	2422.4	2399.9
12.5°	2409.2	2432.3	2454.6	2460.8	2474.3	2478.7	2469.8
15°	2471.6	2483.9	2485.3	2481.8	2485.9	2482.5	2469.5
17.5°	2413.3	2393.4	2353.0	2333.8	2318.6	2296.2	2287.2
20°	2317.1	2258.3	2190.0	2162.8	2130.6	2067.7	2082.8
22.5°	2109.4	2042.5	1974.2	1894.4	1856.2	1796.6	1793.1
25°	1786.2	1670.7	1543.6	1454.8	1402.8	1343.5	1317.4
27.5°	1388.8	1243.4	1139.2	1086.5	1038.5	991.4	989.4
30°	1127.5	1018.2	937.5	892.4	863.0	843.2	847.3
32.5°	950.4	875.5	821.1	783.6	761.9	747.0	746.7
35°	776.9	725.7	690.8	675.1	659.4	648.5	649.2
37.5°	664.9	634.1	614.7	597.4	587.5	582.2	579.2
40°	607.4	582.2	567.1	556.9	548.7	541.2	539.8
42.5°	562.1	541.2	526.2	518.1	510.4	505.2	503.7
45°	498.8	481.7	468.1	459.2	455.8	451.0	451.0
47.5°	443.7	427.0	416.3	410.7	404.8	401.6	401.5
50°	406.6	393.6	384.1	380.6	375.9	373.8	373.1
52.5°	373.3	363.6	356.7	354.4	352.3	349.7	350.2
55°	328.0	322.5	319.8	317.7	314.3	310.2	313.0
57.5°	289.9	285.3	277.9	271.4	268.3	265.4	266.5
60°	263.1	253.5	244.0	236.4	234.3	228.2	228.2
62.5°	229.2	215.8	204.0	199.8	197.8	194.9	194.3
65°	176.3	170.9	168.1	165.3	164.0	164.0	162.6
67.5°	146.1	143.9	140.9	140.2	138.8	138.5	138.0
70°	129.1	126.4	125.0	124.4	123.0	123.7	121.6
72.5°	112.7	110.6	110.3	108.5	107.7	107.8	106.3
75°	88.8	88.8	88.2	87.5	86.1	85.4	86.1
77.5°	68.3	68.5	67.2	67.1	67.0	67.1	66.4
80°	54.7	55.4	54.7	53.9	53.3	53.9	53.3
82.5°	43.2	42.3	42.1	42.0	41.8	41.4	41.3
85°	24.6	25.3	24.6	23.9	23.9	23.9	24.6
87.5°	13.7	13.9	14.1	14.2	14.3	14.4	13.8
90°	22.1	23.2	23.9	24.3	24.8	25.1	25.6
92.5°	23.6	24.2	24.6	24.9	25.1	25.3	25.6
95°	40.1	41.2	41.6	41.4	41.2	40.9	40.8
97.5°	52.0	52.9	53.4	53.7	53.9	54.1	54.4
100°	59.1	60.8	61.8	62.2	62.7	63.1	63.5
102.5°	62.2	64.3	65.7	66.3	66.9	67.5	68.0
105°	64.7	67.1	68.7	69.6	70.4	71.2	72.1
107.5°	73.8	71.5	70.8	71.6	72.4	73.3	74.1
110°	102.7	81.6	71.5	72.3	73.2	74.0	74.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	187.9	111.0	72.9	73.7	74.3	75.0	75.6
115°	292.3	194.7	138.4	123.2	108.1	92.9	77.8
117.5°	577.0	553.5	516.7	466.9	417.1	367.2	317.4
120°	702.4	705.0	692.0	663.5	635.1	606.6	578.3
122.5°	744.1	745.6	743.6	738.2	732.6	727.1	721.6
125°	805.4	806.9	808.0	808.6	809.2	809.9	810.5
127.5°	862.8	865.0	866.1	866.2	866.4	866.5	866.6
130°	898.9	901.3	902.3	902.1	901.9	901.7	901.5
132.5°	933.6	935.6	936.5	936.2	936.0	935.9	935.6
135°	983.6	985.7	986.6	986.1	985.7	985.3	984.9
137.5°	1029.9	1032.0	1032.7	1032.0	1031.3	1030.6	1029.8
140°	1059.8	1061.7	1062.1	1061.0	1060.0	1058.9	1057.9
142.5°	1087.4	1089.0	1089.4	1088.3	1087.3	1086.3	1085.2
145°	1125.8	1127.3	1127.5	1126.5	1125.4	1124.4	1123.3
147.5°	1159.2	1160.3	1160.4	1159.5	1158.6	1157.7	1156.8
150°	1180.2	1181.4	1181.5	1180.4	1179.5	1178.4	1177.3
152.5°	1199.2	1200.4	1200.3	1198.9	1197.6	1196.1	1194.8
155°	1224.8	1226.0	1225.7	1224.1	1222.4	1220.8	1219.1
157.5°	1246.4	1247.9	1247.8	1246.2	1244.5	1242.9	1241.2
160°	1258.8	1260.1	1260.0	1258.6	1257.0	1255.6	1254.1
162.5°	1270.7	1272.2	1271.9	1270.2	1268.4	1266.5	1264.7
165°	1285.0	1286.6	1286.6	1285.0	1283.6	1282.1	1280.7
167.5°	1297.0	1298.5	1298.2	1296.4	1294.5	1292.6	1290.7
170°	1303.1	1304.6	1304.3	1302.4	1300.6	1298.7	1296.7
172.5°	1307.6	1309.1	1308.9	1307.0	1305.1	1303.2	1301.3
175°	1312.6	1314.0	1313.8	1311.6	1309.5	1307.4	1305.3
177.5°	1312.8	1314.0	1313.8	1312.3	1310.8	1309.3	1307.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0

(END OF REPORT)