

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: P332652-840

Luminaire Tested: **S124DIP-S1020D1035U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332652-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1035U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8822.9 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

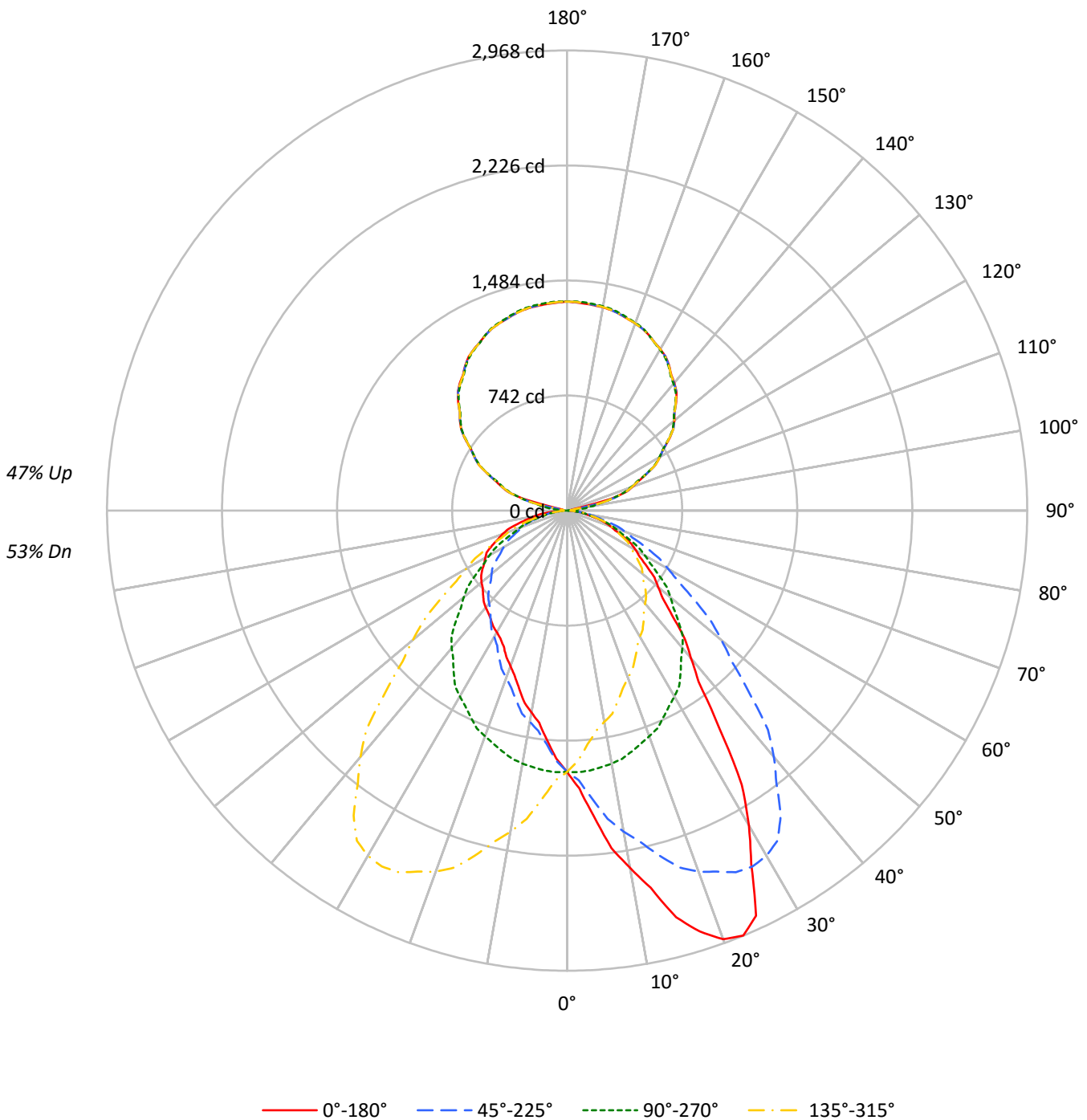
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	72	83	77	72	67	66	62	58	56	53	50	46	44	42	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13605	13605	13605	13605
5°	16022	13639	12039	13639
10°	19184	13581	10839	13581
15°	22697	13443	9954	13443
20°	25274	13302	9164	13302
25°	25683	13097	8620	13097
30°	21853	12899	8447	12899
35°	16802	12577	8449	12577
40°	13095	12198	8608	12198
45°	10919	11628	8752	11628
50°	9610	10934	9048	10934
55°	8804	10101	9413	10101
60°	8251	9357	9852	9357
65°	7681	8521	10214	8521
70°	7020	7695	10447	7695
75°	6273	6772	10321	6772
80°	5258	5551	9995	5551
85°	3881	4011	9568	4011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.9
10°-20°	506.1	5.7
20°-30°	802.5	9.1
30°-40°	893.1	10.1
40°-50°	812.9	9.2
50°-60°	664.3	7.5
60°-70°	474.2	5.4
70°-80°	261.1	3.0
80°-90°	75.2	0.9
90°-100°	46.1	0.5
100°-110°	293.9	3.3
110°-120°	562.3	6.4
120°-130°	713.8	8.1
130°-140°	763.7	8.7
140°-150°	714.1	8.1
150°-160°	575.9	6.5
160°-170°	371.4	4.2
170°-180°	128.0	1.5
0°-30°	1472.7	16.7
0°-40°	2365.8	26.8
0°-60°	3843.0	43.6
0°-90°	4653.6	52.7
90°-120°	902.3	10.2
90°-150°	3094.0	35.1
90°-180°	4169.0	47.3
0°-180°	8822.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1685	1685	1685	1685	1685	
5°	1977	1683	1486	1683	1977	201
15°	2716	1608	1191	1608	2716	767
25°	2883	1470	968	1470	2883	1271
35°	1705	1276	857	1276	1705	1082
45°	956	1018	767	1018	956	753
55°	626	718	669	718	626	565
65°	402	446	535	446	402	398
75°	201	217	331	217	201	214
85°	42	43	103	43	42	52
90°	30	3	30	3	30	15
95°	29	55	29	55	29	23
105°	287	304	287	304	287	251
115°	571	566	571	566	571	565
125°	802	796	802	796	802	715
135°	995	988	995	988	995	766
145°	1145	1139	1145	1139	1145	716
155°	1248	1249	1248	1249	1248	575
165°	1312	1318	1312	1318	1312	370
175°	1340	1348	1340	1348	1340	128
180°	1348	1348	1348	1348	1348	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1793.6	1793.1	1787.5	1786.4	1782.4	1777.5	1776.4	1767.4	1749.5	1741.1	1738.9
5°	1977.1	1991.0	1972.9	1969.4	1967.3	1944.3	1932.4	1918.4	1886.3	1867.4	1852.8
7.5°	2196.1	2197.7	2189.8	2183.3	2165.6	2145.5	2115.4	2083.3	2045.0	2005.2	1975.1
10°	2340.2	2345.7	2336.6	2335.2	2299.7	2277.2	2232.6	2194.9	2151.6	2103.4	2059.5
12.5°	2492.0	2484.2	2479.6	2449.7	2443.2	2402.4	2350.5	2311.7	2244.9	2189.5	2130.9
15°	2715.7	2700.4	2690.6	2649.4	2629.2	2572.6	2517.4	2474.9	2387.6	2304.5	2241.7
17.5°	2846.9	2862.4	2839.7	2822.8	2770.5	2730.8	2674.4	2585.1	2516.8	2413.6	2334.3
20°	2941.9	2943.3	2930.7	2913.3	2872.1	2821.9	2760.4	2662.6	2581.0	2478.3	2369.4
22.5°	2967.6	2967.9	2962.5	2946.2	2915.1	2874.3	2812.4	2730.8	2631.8	2520.2	2411.4
25°	2883.3	2880.4	2886.8	2904.9	2893.1	2880.4	2844.9	2784.1	2692.0	2573.9	2456.7
27.5°	2569.9	2589.2	2624.6	2669.4	2712.4	2745.2	2754.4	2742.0	2684.8	2587.8	2465.0
30°	2344.3	2368.0	2394.6	2439.2	2525.8	2575.4	2629.9	2671.0	2648.0	2570.5	2456.0
32.5°	2096.4	2102.2	2141.6	2192.4	2271.7	2367.0	2453.4	2537.0	2564.8	2524.2	2428.6
35°	1704.9	1714.5	1757.2	1807.5	1904.5	2021.0	2150.9	2266.8	2362.5	2400.9	2352.0
37.5°	1391.2	1419.3	1449.4	1503.4	1588.8	1693.7	1828.7	1978.6	2121.2	2216.7	2232.9
40°	1242.6	1260.1	1281.7	1322.9	1395.5	1498.8	1614.8	1786.6	1938.0	2074.9	2119.5
42.5°	1125.4	1135.6	1148.8	1186.1	1241.4	1344.1	1450.0	1601.0	1753.1	1916.7	1991.7
45°	956.4	966.9	989.3	1010.9	1052.8	1124.0	1222.4	1346.7	1499.5	1657.4	1795.5
47.5°	834.4	841.1	854.3	877.6	913.1	960.1	1040.2	1144.0	1285.7	1438.9	1586.1
50°	765.2	770.7	781.2	802.1	829.4	871.2	936.9	1033.9	1144.9	1299.2	1443.7
52.5°	710.4	712.7	720.3	734.6	756.2	791.4	845.3	925.5	1028.7	1166.3	1310.2
55°	625.5	628.3	635.3	645.8	664.6	686.9	728.1	788.2	878.3	997.6	1122.6
57.5°	555.7	557.6	563.5	567.5	583.1	601.3	632.9	675.8	744.1	845.3	956.8
60°	511.0	509.7	516.6	520.1	530.6	545.9	570.4	611.6	670.9	752.6	855.2
62.5°	467.5	465.5	471.4	475.9	482.0	495.1	515.0	547.3	595.5	669.3	758.0
65°	402.1	399.3	402.8	408.4	413.9	421.0	435.7	464.2	502.6	555.7	623.4
67.5°	336.5	339.4	340.0	342.7	346.0	355.5	365.6	385.8	412.8	455.3	512.7
70°	297.4	298.1	300.9	300.9	303.0	311.3	319.7	331.6	358.1	397.3	444.0
72.5°	258.3	261.3	260.1	262.4	263.9	269.4	275.6	286.9	309.5	338.6	378.1
75°	201.1	203.2	203.2	203.9	205.9	208.0	212.9	221.3	237.3	259.0	286.2
77.5°	146.6	146.9	147.8	150.4	150.4	153.7	157.3	164.1	172.0	186.8	203.4
80°	113.1	114.5	113.8	115.2	115.2	118.0	119.4	127.7	131.3	141.0	154.3
82.5°	82.9	84.3	84.2	86.1	87.3	87.9	89.8	93.1	96.6	105.2	110.7
85°	41.9	43.3	41.9	43.3	45.3	46.0	48.2	48.9	51.7	53.7	58.7
87.5°	18.4	19.9	19.8	20.3	21.3	21.7	22.0	21.2	23.1	23.4	25.3
90°	30.2	29.8	29.4	28.9	28.5	27.6	26.3	24.8	23.5	22.2	20.4
92.5°	27.9	27.8	27.7	27.6	27.5	26.8	25.4	24.0	22.7	21.4	19.6
95°	29.2	29.0	28.8	28.6	28.4	27.6	26.3	24.8	23.5	22.2	21.9
97.5°	28.3	28.0	27.8	27.6	27.4	27.2	27.1	26.9	26.8	26.7	51.6
100°	28.3	28.0	27.8	27.6	27.4	29.1	32.9	36.8	40.6	44.3	75.2
102.5°	29.1	29.0	29.0	28.9	28.9	49.4	90.5	131.6	172.6	213.7	217.7
105°	287.3	295.4	303.5	311.5	319.6	322.6	320.5	318.6	316.6	314.6	313.5
107.5°	400.4	399.6	398.7	397.9	397.0	396.1	395.2	394.2	393.1	392.1	390.6
110°	449.6	449.0	448.3	447.6	447.0	446.4	446.0	445.5	445.0	444.5	443.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	498.8	498.0	497.2	496.2	495.4	495.0	495.1	495.2	495.3	495.3	494.7
115°	570.6	570.6	570.6	570.6	570.6	570.4	570.0	569.5	569.1	568.6	568.8
117.5°	643.6	643.7	643.8	643.9	644.0	644.0	644.1	644.2	644.3	644.4	643.9
120°	689.5	690.0	690.4	690.8	691.4	691.4	690.8	690.4	690.0	689.5	689.7
122.5°	734.7	735.2	735.6	736.1	736.5	736.6	736.3	736.1	735.8	735.5	735.2
125°	802.4	802.2	802.0	801.8	801.5	801.1	800.4	799.8	799.1	798.4	798.9
127.5°	861.9	862.1	862.3	862.5	862.6	862.8	862.9	863.1	863.2	863.3	862.3
130°	902.3	902.3	902.3	902.3	902.3	902.1	901.9	901.7	901.5	901.3	900.6
132.5°	939.4	939.6	939.7	939.9	940.1	940.1	939.9	939.6	939.4	939.2	938.3
135°	995.0	994.5	994.1	993.7	993.2	992.8	992.3	991.9	991.4	991.0	990.1
137.5°	1042.6	1042.7	1042.9	1043.0	1043.1	1043.0	1042.5	1042.0	1041.5	1041.0	1040.0
140°	1075.7	1075.4	1075.2	1075.0	1074.8	1074.3	1073.7	1073.0	1072.3	1071.7	1071.2
142.5°	1103.1	1103.1	1103.0	1103.0	1102.9	1102.7	1102.2	1101.7	1101.2	1100.7	1100.3
145°	1145.2	1144.8	1144.3	1143.9	1143.5	1143.1	1142.9	1142.7	1142.5	1142.2	1142.2
147.5°	1180.1	1179.9	1179.6	1179.4	1179.2	1179.0	1178.8	1178.6	1178.5	1178.3	1178.5
150°	1202.6	1202.4	1202.2	1202.0	1201.7	1201.6	1201.6	1201.6	1201.6	1201.6	1201.9
152.5°	1222.0	1222.1	1222.3	1222.4	1222.5	1222.4	1222.1	1221.7	1221.4	1221.0	1221.4
155°	1248.1	1248.7	1249.4	1250.1	1250.7	1250.6	1249.7	1248.8	1247.9	1247.1	1247.7
157.5°	1269.8	1271.0	1272.1	1273.3	1274.4	1274.4	1273.3	1272.1	1271.0	1269.8	1270.6
160°	1284.3	1285.7	1287.1	1288.4	1289.7	1289.7	1288.4	1287.1	1285.7	1284.3	1284.5
162.5°	1295.7	1297.2	1298.7	1300.2	1301.7	1301.8	1300.5	1299.1	1297.8	1296.5	1296.7
165°	1311.5	1313.5	1315.6	1317.6	1319.6	1319.7	1318.0	1316.2	1314.3	1312.5	1312.5
167.5°	1323.4	1325.6	1328.0	1330.2	1332.4	1332.5	1330.6	1328.6	1326.7	1324.6	1324.8
170°	1330.7	1332.9	1335.2	1337.5	1339.7	1339.9	1338.1	1336.4	1334.5	1332.7	1332.5
172.5°	1334.7	1337.2	1339.6	1342.0	1344.4	1344.7	1342.9	1341.2	1339.4	1337.6	1337.4
175°	1339.8	1342.5	1345.1	1347.9	1350.5	1350.9	1348.9	1346.9	1344.8	1342.8	1342.6
177.5°	1343.0	1345.1	1347.4	1349.5	1351.6	1352.0	1350.5	1349.1	1347.7	1346.3	1345.8
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1739.5	1731.6	1726.1	1721.6	1709.3	1702.0	1696.5	1688.6	1679.7	1670.2	1658.5
5°	1838.2	1814.4	1797.0	1770.5	1745.3	1724.3	1702.7	1683.1	1659.4	1633.7	1614.8
7.5°	1941.9	1906.6	1861.4	1822.1	1778.0	1739.6	1705.3	1670.0	1633.5	1598.0	1565.5
10°	2007.8	1962.5	1912.2	1852.8	1797.0	1747.4	1701.3	1656.7	1613.4	1570.0	1533.1
12.5°	2078.7	2022.2	1947.9	1878.6	1815.9	1749.7	1694.0	1639.3	1587.1	1541.6	1498.4
15°	2173.9	2092.2	2006.4	1913.6	1831.2	1753.7	1677.6	1608.5	1549.8	1489.8	1447.9
17.5°	2232.5	2131.4	2033.3	1936.2	1836.4	1738.8	1656.7	1576.9	1503.5	1443.9	1391.1
20°	2271.0	2170.5	2048.3	1951.3	1832.6	1732.0	1637.1	1548.4	1471.7	1408.2	1353.6
22.5°	2304.5	2188.4	2066.2	1938.4	1820.3	1713.6	1609.7	1520.6	1442.1	1375.1	1322.9
25°	2322.7	2189.3	2056.7	1929.7	1795.5	1669.2	1575.0	1470.3	1386.4	1316.0	1260.1
27.5°	2324.6	2182.0	2031.9	1890.8	1752.4	1634.8	1515.8	1422.2	1335.2	1260.7	1207.1
30°	2318.4	2169.8	2008.5	1855.6	1716.7	1588.9	1485.6	1383.7	1295.1	1221.0	1165.2
32.5°	2299.0	2144.0	1978.3	1816.5	1672.5	1547.6	1441.0	1344.0	1257.6	1184.7	1126.1
35°	2242.4	2089.5	1912.9	1744.6	1597.3	1471.0	1374.6	1276.2	1189.6	1120.4	1064.0
37.5°	2154.0	2015.8	1836.2	1662.1	1517.4	1390.5	1295.1	1206.1	1128.0	1057.8	999.9
40°	2076.9	1955.4	1775.3	1605.7	1449.4	1328.6	1239.2	1157.5	1080.1	1013.7	958.6
42.5°	1988.1	1882.3	1716.2	1536.4	1385.6	1264.4	1177.2	1103.9	1030.9	969.6	914.4
45°	1829.8	1760.0	1603.6	1437.4	1280.4	1165.9	1082.8	1018.5	957.2	897.1	851.0
47.5°	1647.7	1613.1	1481.5	1323.6	1174.6	1061.7	989.7	930.3	876.5	825.6	785.0
50°	1525.4	1508.6	1394.8	1242.6	1100.2	994.1	921.5	870.6	824.5	779.8	741.4
52.5°	1404.7	1404.2	1301.6	1162.3	1030.5	928.3	856.2	808.6	768.6	732.4	697.8
55°	1220.3	1239.9	1159.6	1035.3	917.4	825.2	760.2	717.7	689.7	659.7	633.9
57.5°	1051.0	1083.4	1017.1	907.7	809.3	724.4	667.8	635.8	606.1	587.9	569.2
60°	940.4	971.1	919.5	827.3	734.5	661.9	608.0	579.5	553.6	541.1	527.8
62.5°	842.1	869.5	831.2	745.8	665.2	595.3	550.0	522.5	505.0	491.3	482.5
65°	701.7	724.7	691.9	629.8	560.6	504.7	467.8	446.1	429.4	423.7	413.9
67.5°	567.1	588.1	570.4	517.6	462.1	419.9	390.9	370.1	360.2	355.4	348.4
70°	487.3	508.3	489.4	443.3	400.7	365.2	337.9	326.0	315.6	313.5	303.7
72.5°	419.7	433.9	415.2	379.1	342.6	312.7	291.5	279.1	273.7	269.9	264.6
75°	314.9	327.4	314.9	286.9	261.1	240.1	222.0	217.1	210.9	208.7	205.2
77.5°	222.9	233.7	224.1	206.6	187.3	171.2	161.4	155.1	153.7	150.1	151.8
80°	170.4	177.3	168.2	156.4	141.0	129.9	122.9	119.4	115.2	113.8	116.5
82.5°	122.3	125.4	120.8	112.8	101.4	94.1	89.4	85.3	84.4	84.7	84.7
85°	63.5	62.8	62.1	55.1	51.7	46.8	44.0	43.3	42.6	44.0	45.3
87.5°	24.9	25.1	24.2	21.6	19.4	17.3	16.2	15.1	16.2	17.3	18.3
90°	18.6	16.8	15.0	12.9	10.4	8.0	5.5	3.0	5.5	8.0	10.4
92.5°	17.8	16.0	14.2	13.2	13.1	12.9	12.8	12.7	12.8	12.9	13.1
95°	21.7	21.5	21.3	24.9	32.6	40.2	47.9	55.4	47.9	40.2	32.6
97.5°	76.6	101.6	126.6	136.7	132.0	127.2	122.5	117.8	122.5	127.2	132.0
100°	106.2	137.1	168.0	181.5	177.4	173.4	169.4	165.3	169.4	173.4	177.4
102.5°	221.8	225.8	229.8	230.4	227.4	224.5	221.6	218.5	221.6	224.5	227.4
105°	312.3	311.1	310.0	308.8	307.5	306.1	304.8	303.5	304.8	306.1	307.5
107.5°	389.1	387.6	386.1	385.0	384.3	383.6	382.9	382.2	382.9	383.6	384.3
110°	441.9	440.5	439.2	438.2	437.5	436.9	436.2	435.6	436.2	436.9	437.5



TEST NUMBER: P332652-840

CATALOG NUMBER: S124DIP-S1020D1035U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	494.1	493.5	492.9	492.0	490.8	489.6	488.4	487.2	488.4	489.6	490.8
115°	569.1	569.3	569.5	569.3	568.6	567.9	567.2	566.5	567.2	567.9	568.6
117.5°	643.4	642.9	642.4	641.8	640.9	640.0	639.0	638.1	639.0	640.0	640.9
120°	690.0	690.2	690.4	690.1	689.2	688.3	687.4	686.5	687.4	688.3	689.2
122.5°	734.9	734.6	734.3	733.9	733.3	732.8	732.3	731.6	732.3	732.8	733.3
125°	799.3	799.8	800.2	800.0	799.1	798.2	797.3	796.4	797.3	798.2	799.1
127.5°	861.3	860.3	859.2	858.6	858.4	858.2	857.9	857.7	857.9	858.2	858.4
130°	899.9	899.3	898.6	898.1	897.9	897.7	897.5	897.3	897.5	897.7	897.9
132.5°	937.5	936.6	935.7	935.1	934.7	934.3	933.9	933.5	933.9	934.3	934.7
135°	989.2	988.3	987.3	987.0	987.2	987.5	987.7	988.0	987.7	987.5	987.2
137.5°	1039.1	1038.0	1037.0	1036.5	1036.4	1036.3	1036.2	1036.1	1036.2	1036.3	1036.4
140°	1070.8	1070.3	1069.9	1069.3	1068.9	1068.5	1068.0	1067.6	1068.0	1068.5	1068.9
142.5°	1100.1	1099.8	1099.5	1099.0	1098.2	1097.4	1096.6	1095.8	1096.6	1097.4	1098.2
145°	1142.2	1142.2	1142.2	1141.9	1141.1	1140.5	1139.8	1139.1	1139.8	1140.5	1141.1
147.5°	1178.7	1178.9	1179.2	1178.7	1177.4	1176.2	1174.9	1173.7	1174.9	1176.2	1177.4
150°	1202.1	1202.3	1202.5	1202.2	1201.3	1200.4	1199.5	1198.6	1199.5	1200.4	1201.3
152.5°	1221.8	1222.2	1222.6	1222.4	1221.7	1221.0	1220.3	1219.6	1220.3	1221.0	1221.7
155°	1248.4	1249.1	1249.7	1249.9	1249.7	1249.5	1249.3	1249.1	1249.3	1249.5	1249.7
157.5°	1271.3	1272.1	1272.8	1273.3	1273.4	1273.5	1273.7	1273.8	1273.7	1273.5	1273.4
160°	1284.8	1285.1	1285.3	1285.7	1286.4	1287.1	1287.7	1288.4	1287.7	1287.1	1286.4
162.5°	1296.9	1297.1	1297.4	1297.9	1298.7	1299.6	1300.4	1301.3	1300.4	1299.6	1298.7
165°	1312.5	1312.5	1312.5	1313.1	1314.2	1315.3	1316.5	1317.6	1316.5	1315.3	1314.2
167.5°	1324.9	1325.0	1325.2	1325.9	1327.1	1328.2	1329.4	1330.5	1329.4	1328.2	1327.1
170°	1332.3	1332.0	1331.8	1332.4	1333.7	1335.0	1336.5	1337.8	1336.5	1335.0	1333.7
172.5°	1337.2	1336.9	1336.7	1337.3	1338.6	1339.9	1341.3	1342.6	1341.3	1339.9	1338.6
175°	1342.4	1342.1	1341.9	1342.5	1343.8	1345.1	1346.6	1347.9	1346.6	1345.1	1343.8
177.5°	1345.5	1345.1	1344.8	1345.2	1346.6	1347.8	1349.0	1350.3	1349.0	1347.8	1346.6
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1652.8	1647.9	1640.6	1630.5	1622.1	1613.3	1611.0	1607.6	1614.4	1608.7	1607.1
5°	1598.7	1584.1	1565.2	1543.6	1531.0	1512.9	1509.3	1502.4	1495.4	1494.7	1487.7
7.5°	1541.4	1519.8	1495.1	1473.1	1452.7	1432.8	1419.9	1417.0	1406.7	1400.7	1393.7
10°	1504.5	1477.9	1449.4	1428.4	1404.6	1383.7	1369.1	1360.7	1353.6	1345.9	1339.0
12.5°	1460.9	1432.7	1409.1	1386.4	1358.3	1342.3	1318.2	1303.6	1302.3	1302.4	1284.2
15°	1410.2	1382.3	1345.9	1313.8	1298.5	1267.8	1254.6	1237.8	1227.3	1216.8	1208.5
17.5°	1352.3	1317.5	1289.2	1252.3	1222.9	1198.5	1181.1	1171.0	1155.3	1140.4	1129.7
20°	1316.0	1279.0	1248.9	1209.8	1177.7	1147.7	1133.1	1119.1	1107.2	1094.7	1082.8
22.5°	1279.1	1240.4	1203.7	1165.7	1135.9	1104.2	1090.0	1071.1	1059.8	1052.8	1040.9
25°	1221.0	1179.1	1137.2	1101.0	1070.3	1042.3	1023.5	1008.8	996.2	990.7	983.0
27.5°	1157.9	1116.3	1075.8	1034.6	999.8	979.5	964.4	953.3	946.1	938.7	935.2
30°	1117.7	1074.4	1031.2	992.7	960.6	940.4	926.5	918.8	913.1	909.7	906.2
32.5°	1076.9	1034.2	988.7	953.6	924.8	906.9	896.3	888.6	885.8	884.5	883.2
35°	1011.6	968.3	926.5	895.0	867.8	860.8	851.7	847.5	846.2	851.0	853.1
37.5°	948.4	908.2	869.6	839.1	821.3	811.1	808.0	808.2	813.1	817.5	822.5
40°	907.6	868.5	832.1	805.7	788.9	782.6	781.2	784.7	790.3	795.2	800.7
42.5°	867.9	829.4	796.4	771.5	759.8	754.1	755.0	758.4	766.3	772.2	780.6
45°	806.4	774.3	742.1	721.9	712.1	713.5	713.5	719.7	727.4	736.5	745.6
47.5°	748.4	716.0	689.6	672.6	667.5	666.3	670.2	678.4	689.4	700.6	713.4
50°	709.3	678.5	655.5	640.2	634.6	636.7	642.3	649.9	663.2	677.2	690.4
52.5°	669.6	641.7	620.4	606.1	602.2	606.0	611.6	623.7	635.3	650.4	666.4
55°	608.0	584.3	567.5	557.1	555.7	557.8	564.1	577.3	594.1	613.0	628.3
57.5°	546.7	526.9	511.6	504.3	505.0	507.0	517.4	533.1	551.0	571.1	590.9
60°	505.4	487.3	474.7	469.2	469.8	474.0	486.6	501.3	523.6	543.1	564.1
62.5°	466.4	450.4	438.4	433.4	432.4	441.6	453.6	468.9	491.2	513.0	535.6
65°	403.5	390.9	381.2	378.4	380.5	387.5	402.8	423.0	441.9	464.9	488.7
67.5°	342.0	331.7	325.1	326.3	328.8	339.1	352.0	369.4	390.8	414.7	438.2
70°	303.0	293.2	287.6	288.3	292.6	305.1	316.3	333.7	356.8	381.2	400.7
72.5°	262.8	256.3	251.4	254.3	258.4	267.1	281.0	298.5	318.8	341.5	362.1
75°	201.8	201.8	198.9	201.1	207.3	215.7	226.2	244.4	264.6	282.8	299.5
77.5°	149.7	148.1	150.0	152.5	156.1	166.0	178.0	191.0	206.2	224.4	238.2
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.5	156.4	168.2	183.6	196.8
82.5°	86.0	86.7	88.6	93.8	95.2	103.5	111.6	123.4	134.2	144.5	155.5
85°	46.8	46.8	50.3	52.3	55.8	61.4	66.3	73.3	83.1	90.1	100.5
87.5°	20.4	20.9	23.4	24.9	27.0	30.1	31.5	38.0	40.4	43.5	48.7
90°	12.9	15.0	16.8	18.6	20.4	22.2	23.5	24.8	26.3	27.6	28.5
92.5°	13.2	14.2	16.0	17.8	19.6	21.4	22.7	24.0	25.4	26.8	27.5
95°	24.9	21.3	21.5	21.7	21.9	22.2	23.5	24.8	26.3	27.6	28.4
97.5°	136.7	126.6	101.6	76.6	51.6	26.7	26.8	26.9	27.1	27.2	27.4
100°	181.5	168.0	137.1	106.2	75.2	44.3	40.6	36.8	32.9	29.1	27.4
102.5°	230.4	229.8	225.8	221.8	217.7	213.7	172.6	131.6	90.5	49.4	28.9
105°	308.8	310.0	311.1	312.3	313.5	314.6	316.6	318.6	320.5	322.6	319.6
107.5°	385.0	386.1	387.6	389.1	390.6	392.1	393.1	394.2	395.2	396.1	397.0
110°	438.2	439.2	440.5	441.9	443.2	444.5	445.0	445.5	446.0	446.4	447.0



TEST NUMBER: P332652-840

CATALOG NUMBER: S124DIP-S1020D1035U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.0	492.9	493.5	494.1	494.7	495.3	495.3	495.2	495.1	495.0	495.4
115°	569.3	569.5	569.3	569.1	568.8	568.6	569.1	569.5	570.0	570.4	570.6
117.5°	641.8	642.4	642.9	643.4	643.9	644.4	644.3	644.2	644.1	644.0	644.0
120°	690.1	690.4	690.2	690.0	689.7	689.5	690.0	690.4	690.8	691.4	691.4
122.5°	733.9	734.3	734.6	734.9	735.2	735.5	735.8	736.1	736.3	736.6	736.5
125°	800.0	800.2	799.8	799.3	798.9	798.4	799.1	799.8	800.4	801.1	801.5
127.5°	858.6	859.2	860.3	861.3	862.3	863.3	863.2	863.1	862.9	862.8	862.6
130°	898.1	898.6	899.3	899.9	900.6	901.3	901.5	901.7	901.9	902.1	902.3
132.5°	935.1	935.7	936.6	937.5	938.3	939.2	939.4	939.6	939.9	940.1	940.1
135°	987.0	987.3	988.3	989.2	990.1	991.0	991.4	991.9	992.3	992.8	993.2
137.5°	1036.5	1037.0	1038.0	1039.1	1040.0	1041.0	1041.5	1042.0	1042.5	1043.0	1043.1
140°	1069.3	1069.9	1070.3	1070.8	1071.2	1071.7	1072.3	1073.0	1073.7	1074.3	1074.8
142.5°	1099.0	1099.5	1099.8	1100.1	1100.3	1100.7	1101.2	1101.7	1102.2	1102.7	1102.9
145°	1141.9	1142.2	1142.2	1142.2	1142.2	1142.2	1142.5	1142.7	1142.9	1143.1	1143.5
147.5°	1178.7	1179.2	1178.9	1178.7	1178.5	1178.3	1178.5	1178.6	1178.8	1179.0	1179.2
150°	1202.2	1202.5	1202.3	1202.1	1201.9	1201.6	1201.6	1201.6	1201.6	1201.6	1201.7
152.5°	1222.4	1222.6	1222.2	1221.8	1221.4	1221.0	1221.4	1221.7	1222.1	1222.4	1222.5
155°	1249.9	1249.7	1249.1	1248.4	1247.7	1247.1	1247.9	1248.8	1249.7	1250.6	1250.7
157.5°	1273.3	1272.8	1272.1	1271.3	1270.6	1269.8	1271.0	1272.1	1273.3	1274.4	1274.4
160°	1285.7	1285.3	1285.1	1284.8	1284.5	1284.3	1285.7	1287.1	1288.4	1289.7	1289.7
162.5°	1297.9	1297.4	1297.1	1296.9	1296.7	1296.5	1297.8	1299.1	1300.5	1301.8	1301.7
165°	1313.1	1312.5	1312.5	1312.5	1312.5	1312.5	1314.3	1316.2	1318.0	1319.7	1319.6
167.5°	1325.9	1325.2	1325.0	1324.9	1324.8	1324.6	1326.7	1328.6	1330.6	1332.5	1332.4
170°	1332.4	1331.8	1332.0	1332.3	1332.5	1332.7	1334.5	1336.4	1338.1	1339.9	1339.7
172.5°	1337.3	1336.7	1336.9	1337.2	1337.4	1337.6	1339.4	1341.2	1342.9	1344.7	1344.4
175°	1342.5	1341.9	1342.1	1342.4	1342.6	1342.8	1344.8	1346.9	1348.9	1350.9	1350.5
177.5°	1345.2	1344.8	1345.1	1345.5	1345.8	1346.3	1347.7	1349.1	1350.5	1352.0	1351.6
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



TEST NUMBER: P332652-840

CATALOG NUMBER: S124DIP-S1020D1035U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1606.0	1604.9	1600.9	1600.4	1600.9	1604.9	1606.0	1607.1	1608.7	1614.4	1607.6
5°	1483.5	1480.1	1477.9	1485.6	1477.9	1480.1	1483.5	1487.7	1494.7	1495.4	1502.4
7.5°	1391.2	1388.5	1382.3	1380.4	1382.3	1388.5	1391.2	1393.7	1400.7	1406.7	1417.0
10°	1332.0	1329.2	1323.6	1322.2	1323.6	1329.2	1332.0	1339.0	1345.9	1353.6	1360.7
12.5°	1275.1	1269.5	1268.4	1269.7	1268.4	1269.5	1275.1	1284.2	1302.4	1302.3	1303.6
15°	1199.4	1196.6	1188.9	1191.0	1188.9	1196.6	1199.4	1208.5	1216.8	1227.3	1237.8
17.5°	1124.8	1121.5	1112.2	1120.3	1112.2	1121.5	1124.8	1129.7	1140.4	1155.3	1171.0
20°	1077.9	1072.3	1067.4	1066.7	1067.4	1072.3	1077.9	1082.8	1094.7	1107.2	1119.1
22.5°	1033.2	1028.2	1027.7	1023.2	1027.7	1028.2	1033.2	1040.9	1052.8	1059.8	1071.1
25°	977.3	972.5	971.1	967.7	971.1	972.5	977.3	983.0	990.7	996.2	1008.8
27.5°	934.5	932.1	929.6	930.7	929.6	932.1	934.5	935.2	938.7	946.1	953.3
30°	908.3	907.6	906.2	906.2	906.2	907.6	908.3	906.2	909.7	913.1	918.8
32.5°	886.5	886.4	887.2	887.2	887.2	886.4	886.5	883.2	884.5	885.8	888.6
35°	855.9	858.0	859.4	857.3	859.4	858.0	855.9	853.1	851.0	846.2	847.5
37.5°	828.3	830.3	832.3	834.7	832.3	830.3	828.3	822.5	817.5	813.1	808.2
40°	807.0	811.9	813.3	816.8	813.3	811.9	807.0	800.7	795.2	790.3	784.7
42.5°	786.9	792.3	796.0	796.7	796.0	792.3	786.9	780.6	772.2	766.3	758.4
45°	756.1	761.6	766.6	766.6	766.6	761.6	756.1	745.6	736.5	727.4	719.7
47.5°	724.1	732.2	737.1	738.3	737.1	732.2	724.1	713.4	700.6	689.4	678.4
50°	702.4	712.1	717.0	720.4	717.0	712.1	702.4	690.4	677.2	663.2	649.9
52.5°	681.1	690.8	697.4	699.2	697.4	690.8	681.1	666.4	650.4	635.3	623.7
55°	644.4	658.3	666.0	668.8	666.0	658.3	644.4	628.3	613.0	594.1	577.3
57.5°	609.8	622.6	631.6	633.6	631.6	622.6	609.8	590.9	571.1	551.0	533.1
60°	582.9	596.9	608.0	610.2	608.0	596.9	582.9	564.1	543.1	523.6	501.3
62.5°	555.5	570.1	580.2	585.6	580.2	570.1	555.5	535.6	513.0	491.2	468.9
65°	508.3	522.9	532.7	534.7	532.7	522.9	508.3	488.7	464.9	441.9	423.0
67.5°	456.6	471.2	477.7	481.7	477.7	471.2	456.6	438.2	414.7	390.8	369.4
70°	420.3	432.1	439.1	442.6	439.1	432.1	420.3	400.7	381.2	356.8	333.7
72.5°	378.9	391.3	399.5	400.2	399.5	391.3	378.9	362.1	341.5	318.8	298.5
75°	315.6	326.7	330.9	330.9	330.9	326.7	315.6	299.5	282.8	264.6	244.4
77.5°	249.7	255.5	260.8	262.0	260.8	255.5	249.7	238.2	224.4	206.2	191.0
80°	207.3	210.9	215.0	215.0	215.0	210.9	207.3	196.8	183.6	168.2	156.4
82.5°	163.8	166.7	170.9	170.4	170.9	166.7	163.8	155.5	144.5	134.2	123.4
85°	99.2	105.4	104.7	103.3	104.7	105.4	99.2	100.5	90.1	83.1	73.3
87.5°	50.5	51.1	52.9	54.1	52.9	51.1	50.5	48.7	43.5	40.4	38.0
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.6	26.3	24.8
92.5°	27.6	27.7	27.8	27.9	27.8	27.7	27.6	27.5	26.8	25.4	24.0
95°	28.6	28.8	29.0	29.2	29.0	28.8	28.6	28.4	27.6	26.3	24.8
97.5°	27.6	27.8	28.0	28.3	28.0	27.8	27.6	27.4	27.2	27.1	26.9
100°	27.6	27.8	28.0	28.3	28.0	27.8	27.6	27.4	29.1	32.9	36.8
102.5°	28.9	29.0	29.0	29.1	29.0	29.0	28.9	28.9	49.4	90.5	131.6
105°	311.5	303.5	295.4	287.3	295.4	303.5	311.5	319.6	322.6	320.5	318.6
107.5°	397.9	398.7	399.6	400.4	399.6	398.7	397.9	397.0	396.1	395.2	394.2
110°	447.6	448.3	449.0	449.6	449.0	448.3	447.6	447.0	446.4	446.0	445.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	496.2	497.2	498.0	498.8	498.0	497.2	496.2	495.4	495.0	495.1	495.2
115°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.4	570.0	569.5
117.5°	643.9	643.8	643.7	643.6	643.7	643.8	643.9	644.0	644.0	644.1	644.2
120°	690.8	690.4	690.0	689.5	690.0	690.4	690.8	691.4	691.4	690.8	690.4
122.5°	736.1	735.6	735.2	734.7	735.2	735.6	736.1	736.5	736.6	736.3	736.1
125°	801.8	802.0	802.2	802.4	802.2	802.0	801.8	801.5	801.1	800.4	799.8
127.5°	862.5	862.3	862.1	861.9	862.1	862.3	862.5	862.6	862.8	862.9	863.1
130°	902.3	902.3	902.3	902.3	902.3	902.3	902.3	902.3	902.1	901.9	901.7
132.5°	939.9	939.7	939.6	939.4	939.6	939.7	939.9	940.1	940.1	939.9	939.6
135°	993.7	994.1	994.5	995.0	994.5	994.1	993.7	993.2	992.8	992.3	991.9
137.5°	1043.0	1042.9	1042.7	1042.6	1042.7	1042.9	1043.0	1043.1	1043.0	1042.5	1042.0
140°	1075.0	1075.2	1075.4	1075.7	1075.4	1075.2	1075.0	1074.8	1074.3	1073.7	1073.0
142.5°	1103.0	1103.0	1103.1	1103.1	1103.1	1103.0	1103.0	1102.9	1102.7	1102.2	1101.7
145°	1143.9	1144.3	1144.8	1145.2	1144.8	1144.3	1143.9	1143.5	1143.1	1142.9	1142.7
147.5°	1179.4	1179.6	1179.9	1180.1	1179.9	1179.6	1179.4	1179.2	1179.0	1178.8	1178.6
150°	1202.0	1202.2	1202.4	1202.6	1202.4	1202.2	1202.0	1201.7	1201.6	1201.6	1201.6
152.5°	1222.4	1222.3	1222.1	1222.0	1222.1	1222.3	1222.4	1222.5	1222.4	1222.1	1221.7
155°	1250.1	1249.4	1248.7	1248.1	1248.7	1249.4	1250.1	1250.7	1250.6	1249.7	1248.8
157.5°	1273.3	1272.1	1271.0	1269.8	1271.0	1272.1	1273.3	1274.4	1274.4	1273.3	1272.1
160°	1288.4	1287.1	1285.7	1284.3	1285.7	1287.1	1288.4	1289.7	1289.7	1288.4	1287.1
162.5°	1300.2	1298.7	1297.2	1295.7	1297.2	1298.7	1300.2	1301.7	1301.8	1300.5	1299.1
165°	1317.6	1315.6	1313.5	1311.5	1313.5	1315.6	1317.6	1319.6	1319.7	1318.0	1316.2
167.5°	1330.2	1328.0	1325.6	1323.4	1325.6	1328.0	1330.2	1332.4	1332.5	1330.6	1328.6
170°	1337.5	1335.2	1332.9	1330.7	1332.9	1335.2	1337.5	1339.7	1339.9	1338.1	1336.4
172.5°	1342.0	1339.6	1337.2	1334.7	1337.2	1339.6	1342.0	1344.4	1344.7	1342.9	1341.2
175°	1347.9	1345.1	1342.5	1339.8	1342.5	1345.1	1347.9	1350.5	1350.9	1348.9	1346.9
177.5°	1349.5	1347.4	1345.1	1343.0	1345.1	1347.4	1349.5	1351.6	1352.0	1350.5	1349.1
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1611.0	1613.3	1622.1	1630.5	1640.6	1647.9	1652.8	1658.5	1670.2	1679.7	1688.6
5°	1509.3	1512.9	1531.0	1543.6	1565.2	1584.1	1598.7	1614.8	1633.7	1659.4	1683.1
7.5°	1419.9	1432.8	1452.7	1473.1	1495.1	1519.8	1541.4	1565.5	1598.0	1633.5	1670.0
10°	1369.1	1383.7	1404.6	1428.4	1449.4	1477.9	1504.5	1533.1	1570.0	1613.4	1656.7
12.5°	1318.2	1342.3	1358.3	1386.4	1409.1	1432.7	1460.9	1498.4	1541.6	1587.1	1639.3
15°	1254.6	1267.8	1298.5	1313.8	1345.9	1382.3	1410.2	1447.9	1489.8	1549.8	1608.5
17.5°	1181.1	1198.5	1222.9	1252.3	1289.2	1317.5	1352.3	1391.1	1443.9	1503.5	1576.9
20°	1133.1	1147.7	1177.7	1209.8	1248.9	1279.0	1316.0	1353.6	1408.2	1471.7	1548.4
22.5°	1090.0	1104.2	1135.9	1165.7	1203.7	1240.4	1279.1	1322.9	1375.1	1442.1	1520.6
25°	1023.5	1042.3	1070.3	1101.0	1137.2	1179.1	1221.0	1260.1	1316.0	1386.4	1470.3
27.5°	964.4	979.5	999.8	1034.6	1075.8	1116.3	1157.9	1207.1	1260.7	1335.2	1422.2
30°	926.5	940.4	960.6	992.7	1031.2	1074.4	1117.7	1165.2	1221.0	1295.1	1383.7
32.5°	896.3	906.9	924.8	953.6	988.7	1034.2	1076.9	1126.1	1184.7	1257.6	1344.0
35°	851.7	860.8	867.8	895.0	926.5	968.3	1011.6	1064.0	1120.4	1189.6	1276.2
37.5°	808.0	811.1	821.3	839.1	869.6	908.2	948.4	999.9	1057.8	1128.0	1206.1
40°	781.2	782.6	788.9	805.7	832.1	868.5	907.6	958.6	1013.7	1080.1	1157.5
42.5°	755.0	754.1	759.8	771.5	796.4	829.4	867.9	914.4	969.6	1030.9	1103.9
45°	713.5	713.5	712.1	721.9	742.1	774.3	806.4	851.0	897.1	957.2	1018.5
47.5°	670.2	666.3	667.5	672.6	689.6	716.0	748.4	785.0	825.6	876.5	930.3
50°	642.3	636.7	634.6	640.2	655.5	678.5	709.3	741.4	779.8	824.5	870.6
52.5°	611.6	606.0	602.2	606.1	620.4	641.7	669.6	697.8	732.4	768.6	808.6
55°	564.1	557.8	555.7	557.1	567.5	584.3	608.0	633.9	659.7	689.7	717.7
57.5°	517.4	507.0	505.0	504.3	511.6	526.9	546.7	569.2	587.9	606.1	635.8
60°	486.6	474.0	469.8	469.2	474.7	487.3	505.4	527.8	541.1	553.6	579.5
62.5°	453.6	441.6	432.4	433.4	438.4	450.4	466.4	482.5	491.3	505.0	522.5
65°	402.8	387.5	380.5	378.4	381.2	390.9	403.5	413.9	423.7	429.4	446.1
67.5°	352.0	339.1	328.8	326.3	325.1	331.7	342.0	348.4	355.4	360.2	370.1
70°	316.3	305.1	292.6	288.3	287.6	293.2	303.0	303.7	313.5	315.6	326.0
72.5°	281.0	267.1	258.4	254.3	251.4	256.3	262.8	264.6	269.9	273.7	279.1
75°	226.2	215.7	207.3	201.1	198.9	201.8	201.8	205.2	208.7	210.9	217.1
77.5°	178.0	166.0	156.1	152.5	150.0	148.1	149.7	151.8	150.1	153.7	155.1
80°	144.5	132.0	124.3	122.9	118.7	115.2	114.5	116.5	113.8	115.2	119.4
82.5°	111.6	103.5	95.2	93.8	88.6	86.7	86.0	84.7	84.7	84.4	85.3
85°	66.3	61.4	55.8	52.3	50.3	46.8	46.8	45.3	44.0	42.6	43.3
87.5°	31.5	30.1	27.0	24.9	23.4	20.9	20.4	18.3	17.3	16.2	15.1
90°	23.5	22.2	20.4	18.6	16.8	15.0	12.9	10.4	8.0	5.5	3.0
92.5°	22.7	21.4	19.6	17.8	16.0	14.2	13.2	13.1	12.9	12.8	12.7
95°	23.5	22.2	21.9	21.7	21.5	21.3	24.9	32.6	40.2	47.9	55.4
97.5°	26.8	26.7	51.6	76.6	101.6	126.6	136.7	132.0	127.2	122.5	117.8
100°	40.6	44.3	75.2	106.2	137.1	168.0	181.5	177.4	173.4	169.4	165.3
102.5°	172.6	213.7	217.7	221.8	225.8	229.8	230.4	227.4	224.5	221.6	218.5
105°	316.6	314.6	313.5	312.3	311.1	310.0	308.8	307.5	306.1	304.8	303.5
107.5°	393.1	392.1	390.6	389.1	387.6	386.1	385.0	384.3	383.6	382.9	382.2
110°	445.0	444.5	443.2	441.9	440.5	439.2	438.2	437.5	436.9	436.2	435.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	495.3	495.3	494.7	494.1	493.5	492.9	492.0	490.8	489.6	488.4	487.2
115°	569.1	568.6	568.8	569.1	569.3	569.5	569.3	568.6	567.9	567.2	566.5
117.5°	644.3	644.4	643.9	643.4	642.9	642.4	641.8	640.9	640.0	639.0	638.1
120°	690.0	689.5	689.7	690.0	690.2	690.4	690.1	689.2	688.3	687.4	686.5
122.5°	735.8	735.5	735.2	734.9	734.6	734.3	733.9	733.3	732.8	732.3	731.6
125°	799.1	798.4	798.9	799.3	799.8	800.2	800.0	799.1	798.2	797.3	796.4
127.5°	863.2	863.3	862.3	861.3	860.3	859.2	858.6	858.4	858.2	857.9	857.7
130°	901.5	901.3	900.6	899.9	899.3	898.6	898.1	897.9	897.7	897.5	897.3
132.5°	939.4	939.2	938.3	937.5	936.6	935.7	935.1	934.7	934.3	933.9	933.5
135°	991.4	991.0	990.1	989.2	988.3	987.3	987.0	987.2	987.5	987.7	988.0
137.5°	1041.5	1041.0	1040.0	1039.1	1038.0	1037.0	1036.5	1036.4	1036.3	1036.2	1036.1
140°	1072.3	1071.7	1071.2	1070.8	1070.3	1069.9	1069.3	1068.9	1068.5	1068.0	1067.6
142.5°	1101.2	1100.7	1100.3	1100.1	1099.8	1099.5	1099.0	1098.2	1097.4	1096.6	1095.8
145°	1142.5	1142.2	1142.2	1142.2	1142.2	1142.2	1141.9	1141.1	1140.5	1139.8	1139.1
147.5°	1178.5	1178.3	1178.5	1178.7	1178.9	1179.2	1178.7	1177.4	1176.2	1174.9	1173.7
150°	1201.6	1201.6	1201.9	1202.1	1202.3	1202.5	1202.2	1201.3	1200.4	1199.5	1198.6
152.5°	1221.4	1221.0	1221.4	1221.8	1222.2	1222.6	1222.4	1221.7	1221.0	1220.3	1219.6
155°	1247.9	1247.1	1247.7	1248.4	1249.1	1249.7	1249.9	1249.7	1249.5	1249.3	1249.1
157.5°	1271.0	1269.8	1270.6	1271.3	1272.1	1272.8	1273.3	1273.4	1273.5	1273.7	1273.8
160°	1285.7	1284.3	1284.5	1284.8	1285.1	1285.3	1285.7	1286.4	1287.1	1287.7	1288.4
162.5°	1297.8	1296.5	1296.7	1296.9	1297.1	1297.4	1297.9	1298.7	1299.6	1300.4	1301.3
165°	1314.3	1312.5	1312.5	1312.5	1312.5	1312.5	1313.1	1314.2	1315.3	1316.5	1317.6
167.5°	1326.7	1324.6	1324.8	1324.9	1325.0	1325.2	1325.9	1327.1	1328.2	1329.4	1330.5
170°	1334.5	1332.7	1332.5	1332.3	1332.0	1331.8	1332.4	1333.7	1335.0	1336.5	1337.8
172.5°	1339.4	1337.6	1337.4	1337.2	1336.9	1336.7	1337.3	1338.6	1339.9	1341.3	1342.6
175°	1344.8	1342.8	1342.6	1342.4	1342.1	1341.9	1342.5	1343.8	1345.1	1346.6	1347.9
177.5°	1347.7	1346.3	1345.8	1345.5	1345.1	1344.8	1345.2	1346.6	1347.8	1349.0	1350.3
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



TEST NUMBER: P332652-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1696.5	1702.0	1709.3	1721.6	1726.1	1731.6	1739.5	1738.9	1741.1	1749.5	1767.4
5°	1702.7	1724.3	1745.3	1770.5	1797.0	1814.4	1838.2	1852.8	1867.4	1886.3	1918.4
7.5°	1705.3	1739.6	1778.0	1822.1	1861.4	1906.6	1941.9	1975.1	2005.2	2045.0	2083.3
10°	1701.3	1747.4	1797.0	1852.8	1912.2	1962.5	2007.8	2059.5	2103.4	2151.6	2194.9
12.5°	1694.0	1749.7	1815.9	1878.6	1947.9	2022.2	2078.7	2130.9	2189.5	2244.9	2311.7
15°	1677.6	1753.7	1831.2	1913.6	2006.4	2092.2	2173.9	2241.7	2304.5	2387.6	2474.9
17.5°	1656.7	1738.8	1836.4	1936.2	2033.3	2131.4	2232.5	2334.3	2413.6	2516.8	2585.1
20°	1637.1	1732.0	1832.6	1951.3	2048.3	2170.5	2271.0	2369.4	2478.3	2581.0	2662.6
22.5°	1609.7	1713.6	1820.3	1938.4	2066.2	2188.4	2304.5	2411.4	2520.2	2631.8	2730.8
25°	1575.0	1669.2	1795.5	1929.7	2056.7	2189.3	2322.7	2456.7	2573.9	2692.0	2784.1
27.5°	1515.8	1634.8	1752.4	1890.8	2031.9	2182.0	2324.6	2465.0	2587.8	2684.8	2742.0
30°	1485.6	1588.9	1716.7	1855.6	2008.5	2169.8	2318.4	2456.0	2570.5	2648.0	2671.0
32.5°	1441.0	1547.6	1672.5	1816.5	1978.3	2144.0	2299.0	2428.6	2524.2	2564.8	2537.0
35°	1374.6	1471.0	1597.3	1744.6	1912.9	2089.5	2242.4	2352.0	2400.9	2362.5	2266.8
37.5°	1295.1	1390.5	1517.4	1662.1	1836.2	2015.8	2154.0	2232.9	2216.7	2121.2	1978.6
40°	1239.2	1328.6	1449.4	1605.7	1775.3	1955.4	2076.9	2119.5	2074.9	1938.0	1786.6
42.5°	1177.2	1264.4	1385.6	1536.4	1716.2	1882.3	1988.1	1991.7	1916.7	1753.1	1601.0
45°	1082.8	1165.9	1280.4	1437.4	1603.6	1760.0	1829.8	1795.5	1657.4	1499.5	1346.7
47.5°	989.7	1061.7	1174.6	1323.6	1481.5	1613.1	1647.7	1586.1	1438.9	1285.7	1144.0
50°	921.5	994.1	1100.2	1242.6	1394.8	1508.6	1525.4	1443.7	1299.2	1144.9	1033.9
52.5°	856.2	928.3	1030.5	1162.3	1301.6	1404.2	1404.7	1310.2	1166.3	1028.7	925.5
55°	760.2	825.2	917.4	1035.3	1159.6	1239.9	1220.3	1122.6	997.6	878.3	788.2
57.5°	667.8	724.4	809.3	907.7	1017.1	1083.4	1051.0	956.8	845.3	744.1	675.8
60°	608.0	661.9	734.5	827.3	919.5	971.1	940.4	855.2	752.6	670.9	611.6
62.5°	550.0	595.3	665.2	745.8	831.2	869.5	842.1	758.0	669.3	595.5	547.3
65°	467.8	504.7	560.6	629.8	691.9	724.7	701.7	623.4	555.7	502.6	464.2
67.5°	390.9	419.9	462.1	517.6	570.4	588.1	567.1	512.7	455.3	412.8	385.8
70°	337.9	365.2	400.7	443.3	489.4	508.3	487.3	444.0	397.3	358.1	331.6
72.5°	291.5	312.7	342.6	379.1	415.2	433.9	419.7	378.1	338.6	309.5	286.9
75°	222.0	240.1	261.1	286.9	314.9	327.4	314.9	286.2	259.0	237.3	221.3
77.5°	161.4	171.2	187.3	206.6	224.1	233.7	222.9	203.4	186.8	172.0	164.1
80°	122.9	129.9	141.0	156.4	168.2	177.3	170.4	154.3	141.0	131.3	127.7
82.5°	89.4	94.1	101.4	112.8	120.8	125.4	122.3	110.7	105.2	96.6	93.1
85°	44.0	46.8	51.7	55.1	62.1	62.8	63.5	58.7	53.7	51.7	48.9
87.5°	16.2	17.3	19.4	21.6	24.2	25.1	24.9	25.3	23.4	23.1	21.2
90°	5.5	8.0	10.4	12.9	15.0	16.8	18.6	20.4	22.2	23.5	24.8
92.5°	12.8	12.9	13.1	13.2	14.2	16.0	17.8	19.6	21.4	22.7	24.0
95°	47.9	40.2	32.6	24.9	21.3	21.5	21.7	21.9	22.2	23.5	24.8
97.5°	122.5	127.2	132.0	136.7	126.6	101.6	76.6	51.6	26.7	26.8	26.9
100°	169.4	173.4	177.4	181.5	168.0	137.1	106.2	75.2	44.3	40.6	36.8
102.5°	221.6	224.5	227.4	230.4	229.8	225.8	221.8	217.7	213.7	172.6	131.6
105°	304.8	306.1	307.5	308.8	310.0	311.1	312.3	313.5	314.6	316.6	318.6
107.5°	382.9	383.6	384.3	385.0	386.1	387.6	389.1	390.6	392.1	393.1	394.2
110°	436.2	436.9	437.5	438.2	439.2	440.5	441.9	443.2	444.5	445.0	445.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	488.4	489.6	490.8	492.0	492.9	493.5	494.1	494.7	495.3	495.3	495.2
115°	567.2	567.9	568.6	569.3	569.5	569.3	569.1	568.8	568.6	569.1	569.5
117.5°	639.0	640.0	640.9	641.8	642.4	642.9	643.4	643.9	644.4	644.3	644.2
120°	687.4	688.3	689.2	690.1	690.4	690.2	690.0	689.7	689.5	690.0	690.4
122.5°	732.3	732.8	733.3	733.9	734.3	734.6	734.9	735.2	735.5	735.8	736.1
125°	797.3	798.2	799.1	800.0	800.2	799.8	799.3	798.9	798.4	799.1	799.8
127.5°	857.9	858.2	858.4	858.6	859.2	860.3	861.3	862.3	863.3	863.2	863.1
130°	897.5	897.7	897.9	898.1	898.6	899.3	899.9	900.6	901.3	901.5	901.7
132.5°	933.9	934.3	934.7	935.1	935.7	936.6	937.5	938.3	939.2	939.4	939.6
135°	987.7	987.5	987.2	987.0	987.3	988.3	989.2	990.1	991.0	991.4	991.9
137.5°	1036.2	1036.3	1036.4	1036.5	1037.0	1038.0	1039.1	1040.0	1041.0	1041.5	1042.0
140°	1068.0	1068.5	1068.9	1069.3	1069.9	1070.3	1070.8	1071.2	1071.7	1072.3	1073.0
142.5°	1096.6	1097.4	1098.2	1099.0	1099.5	1099.8	1100.1	1100.3	1100.7	1101.2	1101.7
145°	1139.8	1140.5	1141.1	1141.9	1142.2	1142.2	1142.2	1142.2	1142.2	1142.5	1142.7
147.5°	1174.9	1176.2	1177.4	1178.7	1179.2	1178.9	1178.7	1178.5	1178.3	1178.5	1178.6
150°	1199.5	1200.4	1201.3	1202.2	1202.5	1202.3	1202.1	1201.9	1201.6	1201.6	1201.6
152.5°	1220.3	1221.0	1221.7	1222.4	1222.6	1222.2	1221.8	1221.4	1221.0	1221.4	1221.7
155°	1249.3	1249.5	1249.7	1249.9	1249.7	1249.1	1248.4	1247.7	1247.1	1247.9	1248.8
157.5°	1273.7	1273.5	1273.4	1273.3	1272.8	1272.1	1271.3	1270.6	1269.8	1271.0	1272.1
160°	1287.7	1287.1	1286.4	1285.7	1285.3	1285.1	1284.8	1284.5	1284.3	1285.7	1287.1
162.5°	1300.4	1299.6	1298.7	1297.9	1297.4	1297.1	1296.9	1296.7	1296.5	1297.8	1299.1
165°	1316.5	1315.3	1314.2	1313.1	1312.5	1312.5	1312.5	1312.5	1312.5	1314.3	1316.2
167.5°	1329.4	1328.2	1327.1	1325.9	1325.2	1325.0	1324.9	1324.8	1324.6	1326.7	1328.6
170°	1336.5	1335.0	1333.7	1332.4	1331.8	1332.0	1332.3	1332.5	1332.7	1334.5	1336.4
172.5°	1341.3	1339.9	1338.6	1337.3	1336.7	1336.9	1337.2	1337.4	1337.6	1339.4	1341.2
175°	1346.6	1345.1	1343.8	1342.5	1341.9	1342.1	1342.4	1342.6	1342.8	1344.8	1346.9
177.5°	1349.0	1347.8	1346.6	1345.2	1344.8	1345.1	1345.5	1345.8	1346.3	1347.7	1349.1
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1776.4	1777.5	1782.4	1786.4	1787.5	1793.1	1793.6
5°	1932.4	1944.3	1967.3	1969.4	1972.9	1991.0	1977.1
7.5°	2115.4	2145.5	2165.6	2183.3	2189.8	2197.7	2196.1
10°	2232.6	2277.2	2299.7	2335.2	2336.6	2345.7	2340.2
12.5°	2350.5	2402.4	2443.2	2449.7	2479.6	2484.2	2492.0
15°	2517.4	2572.6	2629.2	2649.4	2690.6	2700.4	2715.7
17.5°	2674.4	2730.8	2770.5	2822.8	2839.7	2862.4	2846.9
20°	2760.4	2821.9	2872.1	2913.3	2930.7	2943.3	2941.9
22.5°	2812.4	2874.3	2915.1	2946.2	2962.5	2967.9	2967.6
25°	2844.9	2880.4	2893.1	2904.9	2886.8	2880.4	2883.3
27.5°	2754.4	2745.2	2712.4	2669.4	2624.6	2589.2	2569.9
30°	2629.9	2575.4	2525.8	2439.2	2394.6	2368.0	2344.3
32.5°	2453.4	2367.0	2271.7	2192.4	2141.6	2102.2	2096.4
35°	2150.9	2021.0	1904.5	1807.5	1757.2	1714.5	1704.9
37.5°	1828.7	1693.7	1588.8	1503.4	1449.4	1419.3	1391.2
40°	1614.8	1498.8	1395.5	1322.9	1281.7	1260.1	1242.6
42.5°	1450.0	1344.1	1241.4	1186.1	1148.8	1135.6	1125.4
45°	1222.4	1124.0	1052.8	1010.9	989.3	966.9	956.4
47.5°	1040.2	960.1	913.1	877.6	854.3	841.1	834.4
50°	936.9	871.2	829.4	802.1	781.2	770.7	765.2
52.5°	845.3	791.4	756.2	734.6	720.3	712.7	710.4
55°	728.1	686.9	664.6	645.8	635.3	628.3	625.5
57.5°	632.9	601.3	583.1	567.5	563.5	557.6	555.7
60°	570.4	545.9	530.6	520.1	516.6	509.7	511.0
62.5°	515.0	495.1	482.0	475.9	471.4	465.5	467.5
65°	435.7	421.0	413.9	408.4	402.8	399.3	402.1
67.5°	365.6	355.5	346.0	342.7	340.0	339.4	336.5
70°	319.7	311.3	303.0	300.9	300.9	298.1	297.4
72.5°	275.6	269.4	263.9	262.4	260.1	261.3	258.3
75°	212.9	208.0	205.9	203.9	203.2	203.2	201.1
77.5°	157.3	153.7	150.4	150.4	147.8	146.9	146.6
80°	119.4	118.0	115.2	115.2	113.8	114.5	113.1
82.5°	89.8	87.9	87.3	86.1	84.2	84.3	82.9
85°	48.2	46.0	45.3	43.3	41.9	43.3	41.9
87.5°	22.0	21.7	21.3	20.3	19.8	19.9	18.4
90°	26.3	27.6	28.5	28.9	29.4	29.8	30.2
92.5°	25.4	26.8	27.5	27.6	27.7	27.8	27.9
95°	26.3	27.6	28.4	28.6	28.8	29.0	29.2
97.5°	27.1	27.2	27.4	27.6	27.8	28.0	28.3
100°	32.9	29.1	27.4	27.6	27.8	28.0	28.3
102.5°	90.5	49.4	28.9	28.9	29.0	29.0	29.1
105°	320.5	322.6	319.6	311.5	303.5	295.4	287.3
107.5°	395.2	396.1	397.0	397.9	398.7	399.6	400.4
110°	446.0	446.4	447.0	447.6	448.3	449.0	449.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	495.1	495.0	495.4	496.2	497.2	498.0	498.8
115°	570.0	570.4	570.6	570.6	570.6	570.6	570.6
117.5°	644.1	644.0	644.0	643.9	643.8	643.7	643.6
120°	690.8	691.4	691.4	690.8	690.4	690.0	689.5
122.5°	736.3	736.6	736.5	736.1	735.6	735.2	734.7
125°	800.4	801.1	801.5	801.8	802.0	802.2	802.4
127.5°	862.9	862.8	862.6	862.5	862.3	862.1	861.9
130°	901.9	902.1	902.3	902.3	902.3	902.3	902.3
132.5°	939.9	940.1	940.1	939.9	939.7	939.6	939.4
135°	992.3	992.8	993.2	993.7	994.1	994.5	995.0
137.5°	1042.5	1043.0	1043.1	1043.0	1042.9	1042.7	1042.6
140°	1073.7	1074.3	1074.8	1075.0	1075.2	1075.4	1075.7
142.5°	1102.2	1102.7	1102.9	1103.0	1103.0	1103.1	1103.1
145°	1142.9	1143.1	1143.5	1143.9	1144.3	1144.8	1145.2
147.5°	1178.8	1179.0	1179.2	1179.4	1179.6	1179.9	1180.1
150°	1201.6	1201.6	1201.7	1202.0	1202.2	1202.4	1202.6
152.5°	1222.1	1222.4	1222.5	1222.4	1222.3	1222.1	1222.0
155°	1249.7	1250.6	1250.7	1250.1	1249.4	1248.7	1248.1
157.5°	1273.3	1274.4	1274.4	1273.3	1272.1	1271.0	1269.8
160°	1288.4	1289.7	1289.7	1288.4	1287.1	1285.7	1284.3
162.5°	1300.5	1301.8	1301.7	1300.2	1298.7	1297.2	1295.7
165°	1318.0	1319.7	1319.6	1317.6	1315.6	1313.5	1311.5
167.5°	1330.6	1332.5	1332.4	1330.2	1328.0	1325.6	1323.4
170°	1338.1	1339.9	1339.7	1337.5	1335.2	1332.9	1330.7
172.5°	1342.9	1344.7	1344.4	1342.0	1339.6	1337.2	1334.7
175°	1348.9	1350.9	1350.5	1347.9	1345.1	1342.5	1339.8
177.5°	1350.5	1352.0	1351.6	1349.5	1347.4	1345.1	1343.0
180°	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9	1347.9

(END OF REPORT)