

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: P332847-940

Luminaire Tested: **S124DIW-S1195D1050U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332847-940
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: S124DIW-S1195D1050U940-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8481.8 lumens
Efficiency: N/A
Efficacy: 125.8 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

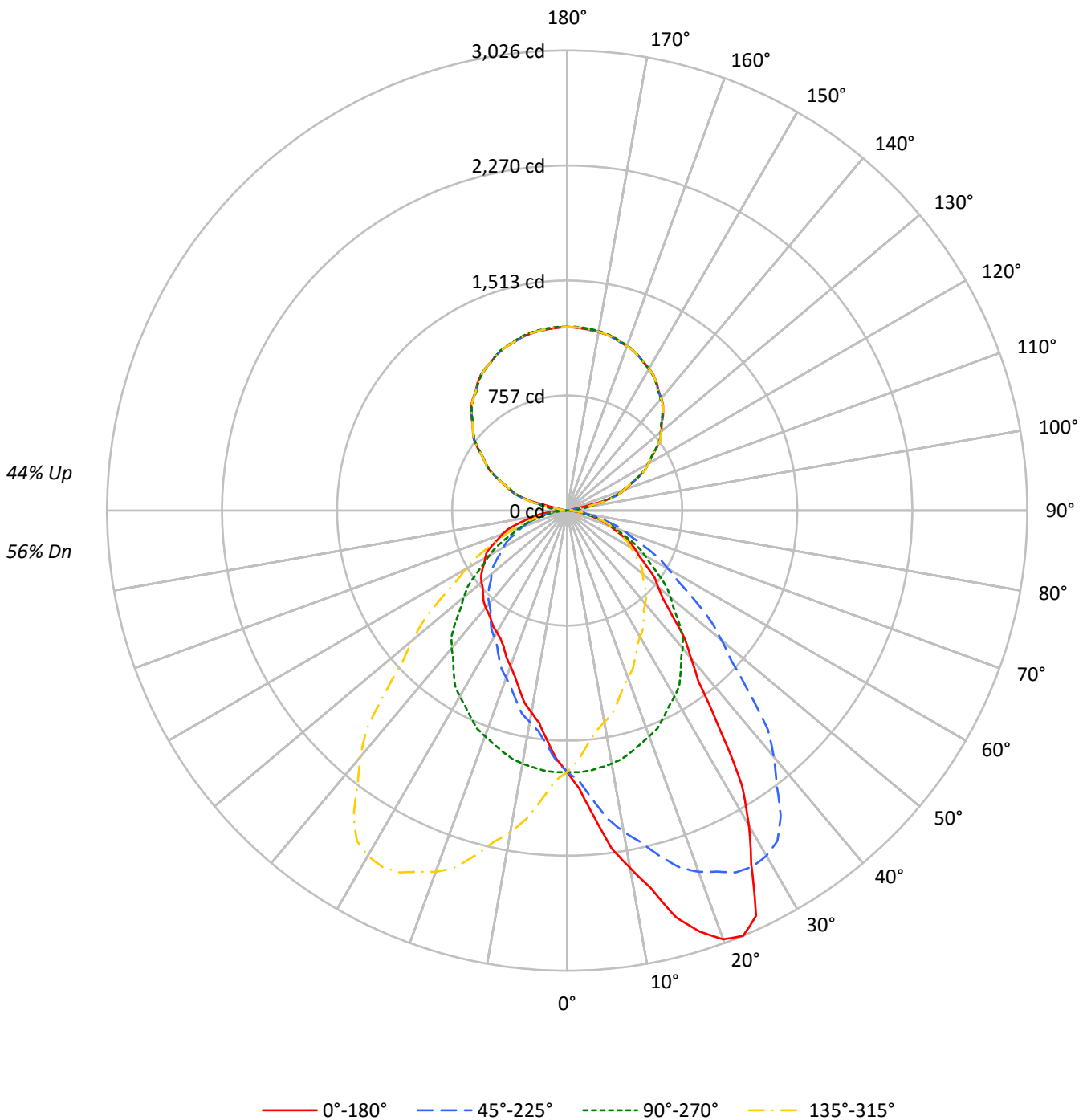
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52	48				
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40				
3	83	73	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34				
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30				
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26				
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23				
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20				
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18				
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17				
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13875	13875	13875	13875
5°	16339	13910	12277	13910
10°	19563	13849	11053	13849
15°	23147	13709	10151	13709
20°	25775	13566	9346	13566
25°	26191	13356	8790	13356
30°	22287	13154	8614	13154
35°	17134	12827	8615	12827
40°	13355	12440	8778	12440
45°	11136	11860	8926	11860
50°	9800	11150	9229	11150
55°	8978	10301	9600	10301
60°	8414	9541	10046	9541
65°	7834	8692	10418	8692
70°	7159	7848	10655	7848
75°	6394	6906	10524	6906
80°	5360	5658	10195	5658
85°	3955	4085	9763	4085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	2.0
10°-20°	516.1	6.1
20°-30°	818.4	9.6
30°-40°	910.7	10.7
40°-50°	829.0	9.8
50°-60°	677.5	8.0
60°-70°	483.6	5.7
70°-80°	266.3	3.1
80°-90°	76.2	0.9
90°-100°	41.3	0.5
100°-110°	263.4	3.1
110°-120°	503.9	5.9
120°-130°	639.7	7.5
130°-140°	684.4	8.1
140°-150°	640.0	7.5
150°-160°	516.1	6.1
160°-170°	332.9	3.9
170°-180°	114.7	1.4
0°-30°	1501.9	17.7
0°-40°	2412.6	28.4
0°-60°	3919.1	46.2
0°-90°	4745.3	55.9
90°-120°	808.6	9.5
90°-150°	2772.8	32.7
90°-180°	3737.0	44.1
0°-180°	8481.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1719	1719	1719	1719	1719	
5°	2016	1716	1515	1716	2016	205
15°	2770	1640	1215	1640	2770	782
25°	2940	1499	987	1499	2940	1296
35°	1739	1302	874	1302	1739	1104
45°	975	1039	782	1039	975	768
55°	638	732	682	732	638	576
65°	410	455	545	455	410	406
75°	205	221	337	221	205	218
85°	43	44	105	44	43	53
90°	27	3	27	3	27	13
95°	26	50	26	50	26	21
105°	258	272	258	272	258	225
115°	511	508	511	508	511	506
125°	719	714	719	714	719	640
135°	892	885	892	885	892	686
145°	1026	1021	1026	1021	1026	641
155°	1118	1119	1118	1119	1118	516
165°	1175	1181	1175	1181	1175	332
175°	1201	1208	1201	1208	1201	114
180°	1208	1208	1208	1208	1208	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1829.2	1828.5	1822.9	1821.8	1817.8	1812.7	1811.5	1802.4	1784.1	1775.6	1773.3
5°	2016.2	2030.5	2012.0	2008.4	2006.3	1982.8	1970.7	1956.4	1923.7	1904.5	1889.5
7.5°	2239.5	2241.2	2233.1	2226.6	2208.5	2188.0	2157.2	2124.5	2085.4	2044.9	2014.3
10°	2386.5	2392.2	2382.9	2381.5	2345.2	2322.4	2276.8	2238.4	2194.2	2145.1	2100.2
12.5°	2541.4	2533.4	2528.7	2498.2	2491.5	2450.0	2397.0	2357.4	2289.4	2232.8	2173.2
15°	2769.5	2753.9	2743.9	2701.9	2681.2	2623.5	2567.3	2523.9	2434.9	2350.2	2286.1
17.5°	2903.3	2919.0	2895.9	2878.7	2825.3	2784.9	2727.4	2636.3	2566.6	2461.4	2380.5
20°	3000.2	3001.6	2988.7	2971.0	2929.0	2877.7	2815.0	2715.3	2632.1	2527.5	2416.4
22.5°	3026.4	3026.6	3021.2	3004.6	2972.8	2931.2	2868.0	2784.9	2684.0	2570.2	2459.1
25°	2940.3	2937.5	2943.9	2962.4	2950.3	2937.5	2901.2	2839.3	2745.3	2624.9	2505.4
27.5°	2620.8	2640.4	2676.6	2722.2	2766.1	2799.5	2809.0	2796.2	2738.0	2639.1	2513.7
30°	2390.8	2414.9	2442.0	2487.5	2575.9	2626.4	2681.9	2723.9	2700.5	2621.5	2504.6
32.5°	2137.9	2143.9	2184.0	2235.8	2316.7	2414.0	2502.0	2587.2	2615.6	2574.1	2476.7
35°	1738.6	1748.6	1792.0	1843.3	1942.2	2061.1	2193.5	2311.7	2409.2	2448.4	2398.5
37.5°	1418.8	1447.4	1478.0	1533.1	1620.2	1727.3	1864.9	2017.9	2163.2	2260.6	2277.1
40°	1267.3	1285.0	1307.2	1349.2	1423.2	1528.6	1646.7	1821.9	1976.4	2115.9	2161.5
42.5°	1147.6	1158.1	1171.6	1209.6	1266.0	1370.8	1478.7	1632.8	1787.9	1954.7	2031.0
45°	975.4	986.1	1008.8	1030.9	1073.6	1146.2	1246.6	1373.3	1529.3	1690.1	1831.1
47.5°	851.0	857.7	871.3	894.9	931.2	979.1	1060.8	1166.6	1311.2	1467.3	1617.6
50°	780.3	786.0	796.7	818.1	845.8	888.5	955.5	1054.4	1167.6	1324.9	1472.3
52.5°	724.5	726.7	734.6	749.1	771.2	807.1	862.0	943.9	1049.1	1189.4	1336.2
55°	637.9	640.8	647.9	658.5	677.8	700.5	742.5	803.8	895.6	1017.4	1144.8
57.5°	566.7	568.7	574.7	578.8	594.6	613.1	645.4	689.2	758.8	862.0	975.8
60°	521.1	519.7	526.8	530.4	541.1	556.8	581.7	623.7	684.2	767.5	872.2
62.5°	476.7	474.7	480.7	485.4	491.5	504.9	525.3	558.2	607.3	682.6	773.0
65°	410.1	407.2	410.8	416.5	422.2	429.3	444.3	473.4	512.6	566.7	635.8
67.5°	343.1	346.2	346.7	349.6	352.8	362.6	372.7	393.4	421.1	464.3	522.9
70°	303.3	304.0	306.8	306.8	309.0	317.5	326.1	338.1	365.2	405.1	452.8
72.5°	263.4	266.4	265.3	267.5	269.1	274.8	281.1	292.6	315.7	345.3	385.6
75°	205.0	207.1	207.1	207.9	210.0	212.1	217.1	225.7	242.1	264.1	291.9
77.5°	149.5	149.8	150.8	153.4	153.4	156.8	160.5	167.3	175.4	190.6	207.5
80°	115.3	116.7	116.0	117.4	117.4	120.3	121.7	130.3	133.8	143.8	157.3
82.5°	84.6	86.0	85.9	87.8	89.0	89.5	91.6	95.0	98.5	107.4	112.9
85°	42.7	44.1	42.7	44.1	46.3	47.0	49.1	49.8	52.7	54.8	59.8
87.5°	17.9	19.6	19.5	20.0	21.0	21.5	21.8	21.0	23.0	23.4	25.3
90°	27.1	26.7	26.3	25.9	25.5	24.7	23.5	22.3	21.0	19.9	18.3
92.5°	25.0	24.9	24.8	24.7	24.6	24.0	22.7	21.6	20.3	19.2	17.6
95°	26.2	26.0	25.8	25.6	25.4	24.7	23.5	22.3	21.0	19.9	19.7
97.5°	25.3	25.1	24.9	24.7	24.5	24.3	24.3	24.1	24.0	23.8	46.3
100°	25.3	25.1	24.9	24.7	24.5	26.1	29.5	32.9	36.4	39.8	67.5
102.5°	26.0	25.9	25.9	25.9	25.9	44.2	81.1	117.9	154.7	191.5	195.1
105°	257.5	264.7	272.0	279.2	286.4	289.1	287.3	285.5	283.7	281.9	280.9
107.5°	358.8	358.1	357.3	356.6	355.8	355.0	354.1	353.2	352.3	351.4	350.1
110°	403.0	402.3	401.7	401.2	400.6	400.0	399.7	399.2	398.9	398.4	397.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	447.0	446.3	445.5	444.8	444.0	443.6	443.7	443.8	443.9	444.0	443.4
115°	511.4	511.4	511.4	511.4	511.4	511.1	510.8	510.3	510.0	509.5	509.8
117.5°	576.8	576.8	576.9	577.0	577.1	577.2	577.3	577.3	577.4	577.5	577.0
120°	618.0	618.4	618.8	619.2	619.6	619.6	619.2	618.8	618.4	618.0	618.1
122.5°	658.4	658.9	659.2	659.7	660.0	660.1	659.9	659.7	659.4	659.2	658.9
125°	719.2	719.0	718.7	718.5	718.4	717.9	717.4	716.8	716.1	715.5	716.0
127.5°	772.5	772.6	772.8	772.9	773.1	773.2	773.4	773.5	773.6	773.7	772.8
130°	808.6	808.6	808.6	808.6	808.6	808.5	808.3	808.1	807.9	807.7	807.1
132.5°	841.9	842.0	842.1	842.3	842.5	842.5	842.3	842.0	841.9	841.7	840.9
135°	891.7	891.4	890.9	890.6	890.1	889.7	889.3	888.9	888.5	888.1	887.3
137.5°	934.3	934.5	934.6	934.7	934.9	934.7	934.2	933.8	933.4	932.9	932.0
140°	964.0	963.8	963.6	963.4	963.2	962.8	962.2	961.6	961.0	960.4	960.0
142.5°	988.6	988.6	988.5	988.5	988.4	988.2	987.7	987.3	986.9	986.4	986.1
145°	1026.4	1025.9	1025.6	1025.1	1024.8	1024.4	1024.2	1024.0	1023.9	1023.6	1023.6
147.5°	1057.6	1057.4	1057.2	1057.0	1056.8	1056.6	1056.4	1056.3	1056.1	1056.0	1056.1
150°	1077.8	1077.6	1077.5	1077.2	1077.0	1076.9	1076.9	1076.9	1076.9	1076.9	1077.1
152.5°	1095.2	1095.3	1095.4	1095.6	1095.6	1095.6	1095.2	1094.9	1094.6	1094.3	1094.7
155°	1118.5	1119.1	1119.7	1120.3	1120.9	1120.8	1120.0	1119.2	1118.4	1117.6	1118.2
157.5°	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2	1141.1	1140.1	1139.1	1138.0	1138.7
160°	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8	1154.6	1153.4	1152.2	1151.0	1151.2
162.5°	1161.1	1162.5	1163.9	1165.2	1166.6	1166.6	1165.5	1164.2	1163.1	1161.8	1162.1
165°	1175.4	1177.2	1179.0	1180.8	1182.6	1182.8	1181.2	1179.6	1177.9	1176.3	1176.3
167.5°	1186.1	1188.1	1190.1	1192.1	1194.1	1194.2	1192.5	1190.7	1188.9	1187.1	1187.3
170°	1192.6	1194.5	1196.6	1198.5	1200.6	1200.8	1199.2	1197.6	1196.0	1194.4	1194.2
172.5°	1196.1	1198.4	1200.5	1202.7	1204.9	1205.1	1203.5	1201.9	1200.3	1198.7	1198.5
175°	1200.7	1203.1	1205.5	1207.9	1210.3	1210.7	1208.8	1207.0	1205.2	1203.5	1203.2
177.5°	1203.6	1205.5	1207.5	1209.3	1211.3	1211.7	1210.3	1209.1	1207.7	1206.5	1206.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1773.9	1765.9	1760.2	1755.7	1743.1	1735.7	1730.0	1722.1	1713.0	1703.3	1691.3
5°	1874.6	1850.4	1832.6	1805.5	1779.9	1758.5	1736.4	1716.5	1692.3	1666.0	1646.7
7.5°	1980.4	1944.4	1898.2	1858.2	1813.2	1774.1	1739.0	1703.2	1665.8	1629.7	1596.5
10°	2047.5	2001.3	1950.0	1889.5	1832.6	1782.0	1735.0	1689.4	1645.3	1601.2	1563.4
12.5°	2120.0	2062.3	1986.5	1915.8	1851.9	1784.3	1727.6	1671.8	1618.5	1572.2	1528.1
15°	2217.1	2133.7	2046.1	1951.4	1867.4	1788.4	1710.8	1640.3	1580.6	1519.3	1476.6
17.5°	2276.7	2173.6	2073.5	1974.5	1872.9	1773.2	1689.4	1608.2	1533.3	1472.5	1418.6
20°	2316.0	2213.5	2088.8	1989.9	1868.8	1766.4	1669.6	1579.1	1500.8	1436.0	1380.5
22.5°	2350.2	2231.7	2107.1	1976.8	1856.4	1747.6	1641.6	1550.6	1470.6	1402.4	1349.2
25°	2368.7	2232.7	2097.4	1967.8	1831.1	1702.3	1606.1	1499.4	1413.9	1342.0	1285.0
27.5°	2370.7	2225.3	2072.2	1928.2	1787.2	1667.1	1545.8	1450.4	1361.6	1285.7	1231.0
30°	2364.4	2212.8	2048.3	1892.4	1750.7	1620.4	1515.0	1411.1	1320.7	1245.2	1188.2
32.5°	2344.5	2186.6	2017.5	1852.5	1705.7	1578.2	1469.5	1370.6	1282.5	1208.2	1148.3
35°	2286.8	2130.8	1950.7	1779.1	1629.0	1500.1	1401.9	1301.5	1213.2	1142.7	1085.0
37.5°	2196.6	2055.7	1872.6	1695.1	1547.5	1418.1	1320.7	1229.9	1150.4	1078.8	1019.7
40°	2118.1	1994.2	1810.5	1637.4	1478.0	1354.9	1263.7	1180.4	1101.4	1033.8	977.5
42.5°	2027.5	1919.6	1750.2	1566.8	1413.1	1289.3	1200.5	1125.7	1051.2	988.7	932.6
45°	1866.0	1794.8	1635.4	1465.9	1305.7	1188.9	1104.2	1038.8	976.1	914.9	867.9
47.5°	1680.3	1645.0	1510.7	1349.9	1197.7	1082.7	1009.2	948.8	893.8	842.0	800.5
50°	1555.6	1538.6	1422.5	1267.3	1122.0	1013.8	939.8	887.8	840.8	795.2	756.1
52.5°	1432.6	1432.0	1327.4	1185.3	1050.9	946.6	873.2	824.6	783.9	746.8	711.7
55°	1244.5	1264.4	1182.6	1055.8	935.5	841.5	775.3	731.9	703.4	672.8	646.5
57.5°	1071.7	1104.8	1037.3	925.7	825.3	738.7	681.1	648.5	618.1	599.6	580.4
60°	959.0	990.3	937.6	843.6	748.9	674.9	620.1	590.9	564.5	551.8	538.2
62.5°	858.7	886.6	847.7	760.5	678.3	607.2	560.9	532.8	515.1	501.1	492.1
65°	715.5	739.0	705.5	642.2	571.7	514.8	477.0	455.0	437.8	432.1	422.2
67.5°	578.4	599.8	581.7	527.8	471.3	428.2	398.7	377.5	367.4	362.4	355.3
70°	497.0	518.3	499.1	452.1	408.7	372.4	344.6	332.5	321.8	319.7	309.7
72.5°	428.0	442.6	423.3	386.6	349.5	318.8	297.3	284.6	279.1	275.3	269.8
75°	321.1	333.9	321.1	292.6	266.3	245.0	226.4	221.4	215.0	212.9	209.3
77.5°	227.3	238.4	228.5	210.7	191.1	174.6	164.6	158.2	156.8	153.1	154.8
80°	173.7	180.8	171.6	159.4	143.8	132.4	125.3	121.7	117.4	116.0	118.9
82.5°	124.8	127.9	123.1	115.0	103.3	95.9	91.1	87.0	86.1	86.4	86.4
85°	64.8	64.1	63.4	56.3	52.7	47.7	44.9	44.1	43.4	44.9	46.3
87.5°	25.0	25.2	24.3	21.7	19.5	17.4	16.3	15.3	16.3	17.4	18.4
90°	16.7	15.1	13.5	11.5	9.4	7.1	4.9	2.7	4.9	7.1	9.4
92.5°	16.0	14.4	12.8	11.9	11.8	11.6	11.5	11.4	11.5	11.6	11.8
95°	19.4	19.3	19.1	22.4	29.2	36.0	42.9	49.7	42.9	36.0	29.2
97.5°	68.7	91.0	113.5	122.5	118.3	114.0	109.8	105.5	109.8	114.0	118.3
100°	95.1	122.9	150.6	162.6	159.0	155.4	151.8	148.2	151.8	155.4	159.0
102.5°	198.8	202.4	206.0	206.4	203.8	201.2	198.5	195.9	198.5	201.2	203.8
105°	279.9	278.8	277.9	276.8	275.5	274.4	273.1	272.0	273.1	274.4	275.5
107.5°	348.7	347.3	346.0	345.0	344.4	343.8	343.2	342.6	343.2	343.8	344.4
110°	396.0	394.8	393.6	392.7	392.1	391.5	390.9	390.3	390.9	391.5	392.1



TEST NUMBER: P332847-940

CATALOG NUMBER: S124DIW-S1195D1050U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	442.8	442.3	441.8	440.9	439.8	438.7	437.7	436.6	437.7	438.7	439.8
115°	510.0	510.1	510.3	510.1	509.5	509.0	508.4	507.7	508.4	509.0	509.5
117.5°	576.6	576.1	575.7	575.1	574.3	573.5	572.7	571.9	572.7	573.5	574.3
120°	618.4	618.6	618.8	618.5	617.7	616.9	616.1	615.3	616.1	616.9	617.7
122.5°	658.6	658.4	658.1	657.6	657.2	656.7	656.2	655.8	656.2	656.7	657.2
125°	716.3	716.8	717.1	716.9	716.1	715.3	714.5	713.7	714.5	715.3	716.1
127.5°	771.9	771.0	770.0	769.5	769.3	769.1	768.8	768.7	768.8	769.1	769.3
130°	806.5	805.9	805.3	804.9	804.7	804.5	804.3	804.1	804.3	804.5	804.7
132.5°	840.2	839.4	838.7	838.0	837.7	837.3	837.0	836.6	837.0	837.3	837.7
135°	886.5	885.7	884.9	884.6	884.8	885.0	885.2	885.4	885.2	885.0	884.8
137.5°	931.1	930.2	929.3	928.9	928.8	928.7	928.6	928.5	928.6	928.7	928.8
140°	959.6	959.2	958.8	958.4	958.0	957.6	957.2	956.8	957.2	957.6	958.0
142.5°	985.9	985.7	985.4	985.0	984.3	983.5	982.8	982.0	982.8	983.5	984.3
145°	1023.6	1023.6	1023.6	1023.3	1022.7	1022.1	1021.5	1020.9	1021.5	1022.1	1022.7
147.5°	1056.4	1056.6	1056.8	1056.3	1055.2	1054.1	1052.9	1051.8	1052.9	1054.1	1055.2
150°	1077.4	1077.5	1077.7	1077.5	1076.7	1075.8	1075.0	1074.2	1075.0	1075.8	1076.7
152.5°	1095.0	1095.4	1095.7	1095.6	1094.9	1094.3	1093.7	1093.0	1093.7	1094.3	1094.9
155°	1118.8	1119.4	1120.0	1120.2	1120.0	1119.8	1119.6	1119.4	1119.6	1119.8	1120.0
157.5°	1139.3	1140.1	1140.8	1141.1	1141.2	1141.4	1141.5	1141.7	1141.5	1141.4	1141.2
160°	1151.4	1151.6	1151.8	1152.2	1152.8	1153.4	1154.1	1154.6	1154.1	1153.4	1152.8
162.5°	1162.3	1162.4	1162.6	1163.1	1163.9	1164.7	1165.5	1166.2	1165.5	1164.7	1163.9
165°	1176.3	1176.3	1176.3	1176.8	1177.8	1178.8	1179.8	1180.8	1179.8	1178.8	1177.8
167.5°	1187.4	1187.5	1187.7	1188.2	1189.3	1190.3	1191.3	1192.4	1191.3	1190.3	1189.3
170°	1194.0	1193.7	1193.6	1194.1	1195.2	1196.5	1197.7	1198.9	1197.7	1196.5	1195.2
172.5°	1198.3	1198.1	1197.9	1198.4	1199.6	1200.8	1202.0	1203.2	1202.0	1200.8	1199.6
175°	1203.0	1202.8	1202.7	1203.1	1204.3	1205.5	1206.8	1207.9	1206.8	1205.5	1204.3
177.5°	1205.9	1205.5	1205.2	1205.6	1206.8	1207.8	1209.0	1210.1	1209.0	1207.8	1206.8
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1685.6	1680.5	1673.1	1662.9	1654.3	1645.2	1642.9	1639.5	1646.3	1640.7	1638.9
5°	1630.4	1615.4	1596.2	1574.1	1561.3	1542.8	1539.3	1532.1	1525.0	1524.3	1517.2
7.5°	1571.8	1549.9	1524.7	1502.2	1481.4	1461.2	1448.0	1445.1	1434.6	1428.4	1421.3
10°	1534.3	1507.2	1478.0	1456.7	1432.4	1411.1	1396.2	1387.6	1380.5	1372.6	1365.6
12.5°	1489.9	1461.1	1437.0	1413.9	1385.2	1369.0	1344.3	1329.5	1328.1	1328.2	1309.7
15°	1438.2	1409.7	1372.6	1339.9	1324.2	1292.9	1279.3	1262.3	1251.6	1240.9	1232.4
17.5°	1379.0	1343.6	1314.6	1277.1	1247.2	1222.3	1204.5	1194.3	1178.1	1163.1	1152.1
20°	1342.0	1304.3	1273.7	1233.8	1201.0	1170.5	1155.5	1141.3	1129.2	1116.3	1104.2
22.5°	1304.4	1265.0	1227.5	1188.8	1158.3	1126.1	1111.6	1092.3	1080.8	1073.6	1061.5
25°	1245.2	1202.5	1159.8	1122.8	1091.5	1062.9	1043.7	1028.8	1015.9	1010.2	1002.5
27.5°	1180.8	1138.4	1097.2	1055.1	1019.5	998.9	983.5	972.2	964.8	957.3	953.8
30°	1139.9	1095.7	1051.6	1012.4	979.6	959.0	944.8	936.9	931.2	927.6	924.1
32.5°	1098.2	1054.7	1008.3	972.5	943.2	924.8	914.0	906.2	903.3	902.1	900.8
35°	1031.6	987.5	944.8	912.8	884.9	877.8	868.6	864.3	862.9	867.9	870.0
37.5°	967.1	926.1	886.8	855.8	837.6	827.2	824.0	824.1	829.3	833.7	838.8
40°	925.5	885.6	848.6	821.6	804.5	798.1	796.7	800.2	805.9	810.9	816.6
42.5°	885.1	845.8	812.2	786.8	774.9	769.0	769.9	773.5	781.4	787.6	796.1
45°	822.3	789.5	756.8	736.2	726.2	727.6	727.6	734.1	741.8	751.1	760.4
47.5°	763.2	730.2	703.3	685.9	680.7	679.5	683.5	691.9	703.1	714.5	727.5
50°	723.4	692.1	668.5	652.8	647.2	649.3	655.0	662.8	676.4	690.6	704.1
52.5°	682.9	654.4	632.7	618.1	614.1	618.0	623.7	636.1	647.9	663.3	679.7
55°	620.1	595.9	578.8	568.1	566.7	568.8	575.2	588.8	605.8	625.1	640.8
57.5°	557.6	537.3	521.7	514.3	515.1	517.0	527.5	543.7	561.9	582.4	602.6
60°	515.4	497.0	484.1	478.4	479.1	483.4	496.2	511.2	534.0	553.9	575.2
62.5°	475.5	459.3	447.1	442.0	441.0	450.4	462.6	478.1	501.0	523.2	546.2
65°	411.5	398.7	388.7	385.8	388.0	395.1	410.8	431.4	450.7	474.1	498.4
67.5°	348.8	338.3	331.4	332.8	335.4	345.9	359.0	376.7	398.6	422.9	446.8
70°	309.0	299.0	293.3	294.0	298.3	311.1	322.5	340.3	363.8	388.7	408.7
72.5°	268.0	261.4	256.3	259.3	263.6	272.4	286.6	304.4	325.1	348.3	369.3
75°	205.7	205.7	202.9	205.0	211.4	220.0	230.7	249.1	269.8	288.4	305.4
77.5°	152.7	151.1	152.9	155.5	159.2	169.3	181.6	194.7	210.4	228.8	242.9
80°	116.7	117.4	121.0	125.3	126.7	134.6	147.4	159.4	171.6	187.3	200.8
82.5°	87.7	88.5	90.2	95.7	97.1	105.5	113.8	125.9	136.9	147.4	158.6
85°	47.7	47.7	51.3	53.4	57.0	62.7	67.6	74.7	84.7	91.8	102.5
87.5°	20.5	21.0	23.5	25.0	27.0	30.1	31.6	38.1	40.6	43.7	49.0
90°	11.5	13.5	15.1	16.7	18.3	19.9	21.0	22.3	23.5	24.7	25.5
92.5°	11.9	12.8	14.4	16.0	17.6	19.2	20.3	21.6	22.7	24.0	24.6
95°	22.4	19.1	19.3	19.4	19.7	19.9	21.0	22.3	23.5	24.7	25.4
97.5°	122.5	113.5	91.0	68.7	46.3	23.8	24.0	24.1	24.3	24.3	24.5
100°	162.6	150.6	122.9	95.1	67.5	39.8	36.4	32.9	29.5	26.1	24.5
102.5°	206.4	206.0	202.4	198.8	195.1	191.5	154.7	117.9	81.1	44.2	25.9
105°	276.8	277.9	278.8	279.9	280.9	281.9	283.7	285.5	287.3	289.1	286.4
107.5°	345.0	346.0	347.3	348.7	350.1	351.4	352.3	353.2	354.1	355.0	355.8
110°	392.7	393.6	394.8	396.0	397.3	398.4	398.9	399.2	399.7	400.0	400.6



TEST NUMBER: P332847-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	440.9	441.8	442.3	442.8	443.4	444.0	443.9	443.8	443.7	443.6	444.0
115°	510.1	510.3	510.1	510.0	509.8	509.5	510.0	510.3	510.8	511.1	511.4
117.5°	575.1	575.7	576.1	576.6	577.0	577.5	577.4	577.3	577.3	577.2	577.1
120°	618.5	618.8	618.6	618.4	618.1	618.0	618.4	618.8	619.2	619.6	619.6
122.5°	657.6	658.1	658.4	658.6	658.9	659.2	659.4	659.7	659.9	660.1	660.0
125°	716.9	717.1	716.8	716.3	716.0	715.5	716.1	716.8	717.4	717.9	718.4
127.5°	769.5	770.0	771.0	771.9	772.8	773.7	773.6	773.5	773.4	773.2	773.1
130°	804.9	805.3	805.9	806.5	807.1	807.7	807.9	808.1	808.3	808.5	808.6
132.5°	838.0	838.7	839.4	840.2	840.9	841.7	841.9	842.0	842.3	842.5	842.5
135°	884.6	884.9	885.7	886.5	887.3	888.1	888.5	888.9	889.3	889.7	890.1
137.5°	928.9	929.3	930.2	931.1	932.0	932.9	933.4	933.8	934.2	934.7	934.9
140°	958.4	958.8	959.2	959.6	960.0	960.4	961.0	961.6	962.2	962.8	963.2
142.5°	985.0	985.4	985.7	985.9	986.1	986.4	986.9	987.3	987.7	988.2	988.4
145°	1023.3	1023.6	1023.6	1023.6	1023.6	1023.6	1023.9	1024.0	1024.2	1024.4	1024.8
147.5°	1056.3	1056.8	1056.6	1056.4	1056.1	1056.0	1056.1	1056.3	1056.4	1056.6	1056.8
150°	1077.5	1077.7	1077.5	1077.4	1077.1	1076.9	1076.9	1076.9	1076.9	1076.9	1077.0
152.5°	1095.6	1095.7	1095.4	1095.0	1094.7	1094.3	1094.6	1094.9	1095.2	1095.6	1095.6
155°	1120.2	1120.0	1119.4	1118.8	1118.2	1117.6	1118.4	1119.2	1120.0	1120.8	1120.9
157.5°	1141.1	1140.8	1140.1	1139.3	1138.7	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2
160°	1152.2	1151.8	1151.6	1151.4	1151.2	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8
162.5°	1163.1	1162.6	1162.4	1162.3	1162.1	1161.8	1163.1	1164.2	1165.5	1166.6	1166.6
165°	1176.8	1176.3	1176.3	1176.3	1176.3	1176.3	1177.9	1179.6	1181.2	1182.8	1182.6
167.5°	1188.2	1187.7	1187.5	1187.4	1187.3	1187.1	1188.9	1190.7	1192.5	1194.2	1194.1
170°	1194.1	1193.6	1193.7	1194.0	1194.2	1194.4	1196.0	1197.6	1199.2	1200.8	1200.6
172.5°	1198.4	1197.9	1198.1	1198.3	1198.5	1198.7	1200.3	1201.9	1203.5	1205.1	1204.9
175°	1203.1	1202.7	1202.8	1203.0	1203.2	1203.5	1205.2	1207.0	1208.8	1210.7	1210.3
177.5°	1205.6	1205.2	1205.5	1205.9	1206.1	1206.5	1207.7	1209.1	1210.3	1211.7	1211.3
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332847-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1637.8	1636.6	1632.6	1632.1	1632.6	1636.6	1637.8	1638.9	1640.7	1646.3	1639.5
5°	1512.9	1509.3	1507.2	1515.0	1507.2	1509.3	1512.9	1517.2	1524.3	1525.0	1532.1
7.5°	1418.8	1415.9	1409.7	1407.7	1409.7	1415.9	1418.8	1421.3	1428.4	1434.6	1445.1
10°	1358.4	1355.6	1349.9	1348.4	1349.9	1355.6	1358.4	1365.6	1372.6	1380.5	1387.6
12.5°	1300.3	1294.6	1293.5	1294.9	1293.5	1294.6	1300.3	1309.7	1328.2	1328.1	1329.5
15°	1223.2	1220.3	1212.5	1214.6	1212.5	1220.3	1223.2	1232.4	1240.9	1251.6	1262.3
17.5°	1147.1	1143.7	1134.2	1142.5	1134.2	1143.7	1147.1	1152.1	1163.1	1178.1	1194.3
20°	1099.2	1093.6	1088.6	1087.9	1088.6	1093.6	1099.2	1104.2	1116.3	1129.2	1141.3
22.5°	1053.6	1048.6	1048.1	1043.5	1048.1	1048.6	1053.6	1061.5	1073.6	1080.8	1092.3
25°	996.8	991.8	990.3	986.8	990.3	991.8	996.8	1002.5	1010.2	1015.9	1028.8
27.5°	953.1	950.6	948.1	949.1	948.1	950.6	953.1	953.8	957.3	964.8	972.2
30°	926.2	925.5	924.1	924.1	924.1	925.5	926.2	924.1	927.6	931.2	936.9
32.5°	904.0	903.9	904.7	904.7	904.7	903.9	904.0	900.8	902.1	903.3	906.2
35°	872.9	874.9	876.4	874.2	876.4	874.9	872.9	870.0	867.9	862.9	864.3
37.5°	844.6	846.8	848.8	851.2	848.8	846.8	844.6	838.8	833.7	829.3	824.1
40°	823.0	828.0	829.4	832.9	829.4	828.0	823.0	816.6	810.9	805.9	800.2
42.5°	802.5	808.1	811.7	812.4	811.7	808.1	802.5	796.1	787.6	781.4	773.5
45°	771.1	776.8	781.8	781.8	781.8	776.8	771.1	760.4	751.1	741.8	734.1
47.5°	738.4	746.7	751.7	753.0	751.7	746.7	738.4	727.5	714.5	703.1	691.9
50°	716.2	726.2	731.2	734.8	731.2	726.2	716.2	704.1	690.6	676.4	662.8
52.5°	694.6	704.5	711.2	713.1	711.2	704.5	694.6	679.7	663.3	647.9	636.1
55°	657.1	671.4	679.2	682.1	679.2	671.4	657.1	640.8	625.1	605.8	588.8
57.5°	621.8	634.9	644.0	646.1	644.0	634.9	621.8	602.6	582.4	561.9	543.7
60°	594.5	608.7	620.1	622.2	620.1	608.7	594.5	575.2	553.9	534.0	511.2
62.5°	566.6	581.4	591.7	597.2	591.7	581.4	566.6	546.2	523.2	501.0	478.1
65°	518.3	533.2	543.2	545.4	543.2	533.2	518.3	498.4	474.1	450.7	431.4
67.5°	465.7	480.5	487.1	491.2	487.1	480.5	465.7	446.8	422.9	398.6	376.7
70°	428.6	440.7	447.8	451.4	447.8	440.7	428.6	408.7	388.7	363.8	340.3
72.5°	386.5	399.1	407.4	408.0	407.4	399.1	386.5	369.3	348.3	325.1	304.4
75°	321.8	333.2	337.4	337.4	337.4	333.2	321.8	305.4	288.4	269.8	249.1
77.5°	254.8	260.6	266.0	267.2	266.0	260.6	254.8	242.9	228.8	210.4	194.7
80°	211.4	215.0	219.3	219.3	219.3	215.0	211.4	200.8	187.3	171.6	159.4
82.5°	167.0	170.0	174.3	173.7	174.3	170.0	167.0	158.6	147.4	136.9	125.9
85°	101.1	107.5	106.8	105.4	106.8	107.5	101.1	102.5	91.8	84.7	74.7
87.5°	50.7	51.4	53.1	54.4	53.1	51.4	50.7	49.0	43.7	40.6	38.1
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.7	23.5	22.3
92.5°	24.7	24.8	24.9	25.0	24.9	24.8	24.7	24.6	24.0	22.7	21.6
95°	25.6	25.8	26.0	26.2	26.0	25.8	25.6	25.4	24.7	23.5	22.3
97.5°	24.7	24.9	25.1	25.3	25.1	24.9	24.7	24.5	24.3	24.3	24.1
100°	24.7	24.9	25.1	25.3	25.1	24.9	24.7	24.5	26.1	29.5	32.9
102.5°	25.9	25.9	25.9	26.0	25.9	25.9	25.9	25.9	44.2	81.1	117.9
105°	279.2	272.0	264.7	257.5	264.7	272.0	279.2	286.4	289.1	287.3	285.5
107.5°	356.6	357.3	358.1	358.8	358.1	357.3	356.6	355.8	355.0	354.1	353.2
110°	401.2	401.7	402.3	403.0	402.3	401.7	401.2	400.6	400.0	399.7	399.2



TEST NUMBER: P332847-940

CATALOG NUMBER: S124DIW-S1195D1050U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	444.8	445.5	446.3	447.0	446.3	445.5	444.8	444.0	443.6	443.7	443.8
115°	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.1	510.8	510.3
117.5°	577.0	576.9	576.8	576.8	576.8	576.9	577.0	577.1	577.2	577.3	577.3
120°	619.2	618.8	618.4	618.0	618.4	618.8	619.2	619.6	619.6	619.2	618.8
122.5°	659.7	659.2	658.9	658.4	658.9	659.2	659.7	660.0	660.1	659.9	659.7
125°	718.5	718.7	719.0	719.2	719.0	718.7	718.5	718.4	717.9	717.4	716.8
127.5°	772.9	772.8	772.6	772.5	772.6	772.8	772.9	773.1	773.2	773.4	773.5
130°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.5	808.3	808.1
132.5°	842.3	842.1	842.0	841.9	842.0	842.1	842.3	842.5	842.5	842.3	842.0
135°	890.6	890.9	891.4	891.7	891.4	890.9	890.6	890.1	889.7	889.3	888.9
137.5°	934.7	934.6	934.5	934.3	934.5	934.6	934.7	934.9	934.7	934.2	933.8
140°	963.4	963.6	963.8	964.0	963.8	963.6	963.4	963.2	962.8	962.2	961.6
142.5°	988.5	988.5	988.6	988.6	988.6	988.5	988.5	988.4	988.2	987.7	987.3
145°	1025.1	1025.6	1025.9	1026.4	1025.9	1025.6	1025.1	1024.8	1024.4	1024.2	1024.0
147.5°	1057.0	1057.2	1057.4	1057.6	1057.4	1057.2	1057.0	1056.8	1056.6	1056.4	1056.3
150°	1077.2	1077.5	1077.6	1077.8	1077.6	1077.5	1077.2	1077.0	1076.9	1076.9	1076.9
152.5°	1095.6	1095.4	1095.3	1095.2	1095.3	1095.4	1095.6	1095.6	1095.6	1095.2	1094.9
155°	1120.3	1119.7	1119.1	1118.5	1119.1	1119.7	1120.3	1120.9	1120.8	1120.0	1119.2
157.5°	1141.1	1140.1	1139.1	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2	1141.1	1140.1
160°	1154.6	1153.4	1152.2	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8	1154.6	1153.4
162.5°	1165.2	1163.9	1162.5	1161.1	1162.5	1163.9	1165.2	1166.6	1166.6	1165.5	1164.2
165°	1180.8	1179.0	1177.2	1175.4	1177.2	1179.0	1180.8	1182.6	1182.8	1181.2	1179.6
167.5°	1192.1	1190.1	1188.1	1186.1	1188.1	1190.1	1192.1	1194.1	1194.2	1192.5	1190.7
170°	1198.5	1196.6	1194.5	1192.6	1194.5	1196.6	1198.5	1200.6	1200.8	1199.2	1197.6
172.5°	1202.7	1200.5	1198.4	1196.1	1198.4	1200.5	1202.7	1204.9	1205.1	1203.5	1201.9
175°	1207.9	1205.5	1203.1	1200.7	1203.1	1205.5	1207.9	1210.3	1210.7	1208.8	1207.0
177.5°	1209.3	1207.5	1205.5	1203.6	1205.5	1207.5	1209.3	1211.3	1211.7	1210.3	1209.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332847-940

CATALOG NUMBER: S124DIW-S1195D1050U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1642.9	1645.2	1654.3	1662.9	1673.1	1680.5	1685.6	1691.3	1703.3	1713.0	1722.1
5°	1539.3	1542.8	1561.3	1574.1	1596.2	1615.4	1630.4	1646.7	1666.0	1692.3	1716.5
7.5°	1448.0	1461.2	1481.4	1502.2	1524.7	1549.9	1571.8	1596.5	1629.7	1665.8	1703.2
10°	1396.2	1411.1	1432.4	1456.7	1478.0	1507.2	1534.3	1563.4	1601.2	1645.3	1689.4
12.5°	1344.3	1369.0	1385.2	1413.9	1437.0	1461.1	1489.9	1528.1	1572.2	1618.5	1671.8
15°	1279.3	1292.9	1324.2	1339.9	1372.6	1409.7	1438.2	1476.6	1519.3	1580.6	1640.3
17.5°	1204.5	1222.3	1247.2	1277.1	1314.6	1343.6	1379.0	1418.6	1472.5	1533.3	1608.2
20°	1155.5	1170.5	1201.0	1233.8	1273.7	1304.3	1342.0	1380.5	1436.0	1500.8	1579.1
22.5°	1111.6	1126.1	1158.3	1188.8	1227.5	1265.0	1304.4	1349.2	1402.4	1470.6	1550.6
25°	1043.7	1062.9	1091.5	1122.8	1159.8	1202.5	1245.2	1285.0	1342.0	1413.9	1499.4
27.5°	983.5	998.9	1019.5	1055.1	1097.2	1138.4	1180.8	1231.0	1285.7	1361.6	1450.4
30°	944.8	959.0	979.6	1012.4	1051.6	1095.7	1139.9	1188.2	1245.2	1320.7	1411.1
32.5°	914.0	924.8	943.2	972.5	1008.3	1054.7	1098.2	1148.3	1208.2	1282.5	1370.6
35°	868.6	877.8	884.9	912.8	944.8	987.5	1031.6	1085.0	1142.7	1213.2	1301.5
37.5°	824.0	827.2	837.6	855.8	886.8	926.1	967.1	1019.7	1078.8	1150.4	1229.9
40°	796.7	798.1	804.5	821.6	848.6	885.6	925.5	977.5	1033.8	1101.4	1180.4
42.5°	769.9	769.0	774.9	786.8	812.2	845.8	885.1	932.6	988.7	1051.2	1125.7
45°	727.6	727.6	726.2	736.2	756.8	789.5	822.3	867.9	914.9	976.1	1038.8
47.5°	683.5	679.5	680.7	685.9	703.3	730.2	763.2	800.5	842.0	893.8	948.8
50°	655.0	649.3	647.2	652.8	668.5	692.1	723.4	756.1	795.2	840.8	887.8
52.5°	623.7	618.0	614.1	618.1	632.7	654.4	682.9	711.7	746.8	783.9	824.6
55°	575.2	568.8	566.7	568.1	578.8	595.9	620.1	646.5	672.8	703.4	731.9
57.5°	527.5	517.0	515.1	514.3	521.7	537.3	557.6	580.4	599.6	618.1	648.5
60°	496.2	483.4	479.1	478.4	484.1	497.0	515.4	538.2	551.8	564.5	590.9
62.5°	462.6	450.4	441.0	442.0	447.1	459.3	475.5	492.1	501.1	515.1	532.8
65°	410.8	395.1	388.0	385.8	388.7	398.7	411.5	422.2	432.1	437.8	455.0
67.5°	359.0	345.9	335.4	332.8	331.4	338.3	348.8	355.3	362.4	367.4	377.5
70°	322.5	311.1	298.3	294.0	293.3	299.0	309.0	309.7	319.7	321.8	332.5
72.5°	286.6	272.4	263.6	259.3	256.3	261.4	268.0	269.8	275.3	279.1	284.6
75°	230.7	220.0	211.4	205.0	202.9	205.7	205.7	209.3	212.9	215.0	221.4
77.5°	181.6	169.3	159.2	155.5	152.9	151.1	152.7	154.8	153.1	156.8	158.2
80°	147.4	134.6	126.7	125.3	121.0	117.4	116.7	118.9	116.0	117.4	121.7
82.5°	113.8	105.5	97.1	95.7	90.2	88.5	87.7	86.4	86.4	86.1	87.0
85°	67.6	62.7	57.0	53.4	51.3	47.7	47.7	46.3	44.9	43.4	44.1
87.5°	31.6	30.1	27.0	25.0	23.5	21.0	20.5	18.4	17.4	16.3	15.3
90°	21.0	19.9	18.3	16.7	15.1	13.5	11.5	9.4	7.1	4.9	2.7
92.5°	20.3	19.2	17.6	16.0	14.4	12.8	11.9	11.8	11.6	11.5	11.4
95°	21.0	19.9	19.7	19.4	19.3	19.1	22.4	29.2	36.0	42.9	49.7
97.5°	24.0	23.8	46.3	68.7	91.0	113.5	122.5	118.3	114.0	109.8	105.5
100°	36.4	39.8	67.5	95.1	122.9	150.6	162.6	159.0	155.4	151.8	148.2
102.5°	154.7	191.5	195.1	198.8	202.4	206.0	206.4	203.8	201.2	198.5	195.9
105°	283.7	281.9	280.9	279.9	278.8	277.9	276.8	275.5	274.4	273.1	272.0
107.5°	352.3	351.4	350.1	348.7	347.3	346.0	345.0	344.4	343.8	343.2	342.6
110°	398.9	398.4	397.3	396.0	394.8	393.6	392.7	392.1	391.5	390.9	390.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.9	444.0	443.4	442.8	442.3	441.8	440.9	439.8	438.7	437.7	436.6
115°	510.0	509.5	509.8	510.0	510.1	510.3	510.1	509.5	509.0	508.4	507.7
117.5°	577.4	577.5	577.0	576.6	576.1	575.7	575.1	574.3	573.5	572.7	571.9
120°	618.4	618.0	618.1	618.4	618.6	618.8	618.5	617.7	616.9	616.1	615.3
122.5°	659.4	659.2	658.9	658.6	658.4	658.1	657.6	657.2	656.7	656.2	655.8
125°	716.1	715.5	716.0	716.3	716.8	717.1	716.9	716.1	715.3	714.5	713.7
127.5°	773.6	773.7	772.8	771.9	771.0	770.0	769.5	769.3	769.1	768.8	768.7
130°	807.9	807.7	807.1	806.5	805.9	805.3	804.9	804.7	804.5	804.3	804.1
132.5°	841.9	841.7	840.9	840.2	839.4	838.7	838.0	837.7	837.3	837.0	836.6
135°	888.5	888.1	887.3	886.5	885.7	884.9	884.6	884.8	885.0	885.2	885.4
137.5°	933.4	932.9	932.0	931.1	930.2	929.3	928.9	928.8	928.7	928.6	928.5
140°	961.0	960.4	960.0	959.6	959.2	958.8	958.4	958.0	957.6	957.2	956.8
142.5°	986.9	986.4	986.1	985.9	985.7	985.4	985.0	984.3	983.5	982.8	982.0
145°	1023.9	1023.6	1023.6	1023.6	1023.6	1023.6	1023.3	1022.7	1022.1	1021.5	1020.9
147.5°	1056.1	1056.0	1056.1	1056.4	1056.6	1056.8	1056.3	1055.2	1054.1	1052.9	1051.8
150°	1076.9	1076.9	1077.1	1077.4	1077.5	1077.7	1077.5	1076.7	1075.8	1075.0	1074.2
152.5°	1094.6	1094.3	1094.7	1095.0	1095.4	1095.7	1095.6	1094.9	1094.3	1093.7	1093.0
155°	1118.4	1117.6	1118.2	1118.8	1119.4	1120.0	1120.2	1120.0	1119.8	1119.6	1119.4
157.5°	1139.1	1138.0	1138.7	1139.3	1140.1	1140.8	1141.1	1141.2	1141.4	1141.5	1141.7
160°	1152.2	1151.0	1151.2	1151.4	1151.6	1151.8	1152.2	1152.8	1153.4	1154.1	1154.6
162.5°	1163.1	1161.8	1162.1	1162.3	1162.4	1162.6	1163.1	1163.9	1164.7	1165.5	1166.2
165°	1177.9	1176.3	1176.3	1176.3	1176.3	1176.3	1176.8	1177.8	1178.8	1179.8	1180.8
167.5°	1188.9	1187.1	1187.3	1187.4	1187.5	1187.7	1188.2	1189.3	1190.3	1191.3	1192.4
170°	1196.0	1194.4	1194.2	1194.0	1193.7	1193.6	1194.1	1195.2	1196.5	1197.7	1198.9
172.5°	1200.3	1198.7	1198.5	1198.3	1198.1	1197.9	1198.4	1199.6	1200.8	1202.0	1203.2
175°	1205.2	1203.5	1203.2	1203.0	1202.8	1202.7	1203.1	1204.3	1205.5	1206.8	1207.9
177.5°	1207.7	1206.5	1206.1	1205.9	1205.5	1205.2	1205.6	1206.8	1207.8	1209.0	1210.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332847-940

CATALOG NUMBER: S124DIW-S1195D1050U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1730.0	1735.7	1743.1	1755.7	1760.2	1765.9	1773.9	1773.3	1775.6	1784.1	1802.4
5°	1736.4	1758.5	1779.9	1805.5	1832.6	1850.4	1874.6	1889.5	1904.5	1923.7	1956.4
7.5°	1739.0	1774.1	1813.2	1858.2	1898.2	1944.4	1980.4	2014.3	2044.9	2085.4	2124.5
10°	1735.0	1782.0	1832.6	1889.5	1950.0	2001.3	2047.5	2100.2	2145.1	2194.2	2238.4
12.5°	1727.6	1784.3	1851.9	1915.8	1986.5	2062.3	2120.0	2173.2	2232.8	2289.4	2357.4
15°	1710.8	1788.4	1867.4	1951.4	2046.1	2133.7	2217.1	2286.1	2350.2	2434.9	2523.9
17.5°	1689.4	1773.2	1872.9	1974.5	2073.5	2173.6	2276.7	2380.5	2461.4	2566.6	2636.3
20°	1669.6	1766.4	1868.8	1989.9	2088.8	2213.5	2316.0	2416.4	2527.5	2632.1	2715.3
22.5°	1641.6	1747.6	1856.4	1976.8	2107.1	2231.7	2350.2	2459.1	2570.2	2684.0	2784.9
25°	1606.1	1702.3	1831.1	1967.8	2097.4	2232.7	2368.7	2505.4	2624.9	2745.3	2839.3
27.5°	1545.8	1667.1	1787.2	1928.2	2072.2	2225.3	2370.7	2513.7	2639.1	2738.0	2796.2
30°	1515.0	1620.4	1750.7	1892.4	2048.3	2212.8	2364.4	2504.6	2621.5	2700.5	2723.9
32.5°	1469.5	1578.2	1705.7	1852.5	2017.5	2186.6	2344.5	2476.7	2574.1	2615.6	2587.2
35°	1401.9	1500.1	1629.0	1779.1	1950.7	2130.8	2286.8	2398.5	2448.4	2409.2	2311.7
37.5°	1320.7	1418.1	1547.5	1695.1	1872.6	2055.7	2196.6	2277.1	2260.6	2163.2	2017.9
40°	1263.7	1354.9	1478.0	1637.4	1810.5	1994.2	2118.1	2161.5	2115.9	1976.4	1821.9
42.5°	1200.5	1289.3	1413.1	1566.8	1750.2	1919.6	2027.5	2031.0	1954.7	1787.9	1632.8
45°	1104.2	1188.9	1305.7	1465.9	1635.4	1794.8	1866.0	1831.1	1690.1	1529.3	1373.3
47.5°	1009.2	1082.7	1197.7	1349.9	1510.7	1645.0	1680.3	1617.6	1467.3	1311.2	1166.6
50°	939.8	1013.8	1122.0	1267.3	1422.5	1538.6	1555.6	1472.3	1324.9	1167.6	1054.4
52.5°	873.2	946.6	1050.9	1185.3	1327.4	1432.0	1432.6	1336.2	1189.4	1049.1	943.9
55°	775.3	841.5	935.5	1055.8	1182.6	1264.4	1244.5	1144.8	1017.4	895.6	803.8
57.5°	681.1	738.7	825.3	925.7	1037.3	1104.8	1071.7	975.8	862.0	758.8	689.2
60°	620.1	674.9	748.9	843.6	937.6	990.3	959.0	872.2	767.5	684.2	623.7
62.5°	560.9	607.2	678.3	760.5	847.7	886.6	858.7	773.0	682.6	607.3	558.2
65°	477.0	514.8	571.7	642.2	705.5	739.0	715.5	635.8	566.7	512.6	473.4
67.5°	398.7	428.2	471.3	527.8	581.7	599.8	578.4	522.9	464.3	421.1	393.4
70°	344.6	372.4	408.7	452.1	499.1	518.3	497.0	452.8	405.1	365.2	338.1
72.5°	297.3	318.8	349.5	386.6	423.3	442.6	428.0	385.6	345.3	315.7	292.6
75°	226.4	245.0	266.3	292.6	321.1	333.9	321.1	291.9	264.1	242.1	225.7
77.5°	164.6	174.6	191.1	210.7	228.5	238.4	227.3	207.5	190.6	175.4	167.3
80°	125.3	132.4	143.8	159.4	171.6	180.8	173.7	157.3	143.8	133.8	130.3
82.5°	91.1	95.9	103.3	115.0	123.1	127.9	124.8	112.9	107.4	98.5	95.0
85°	44.9	47.7	52.7	56.3	63.4	64.1	64.8	59.8	54.8	52.7	49.8
87.5°	16.3	17.4	19.5	21.7	24.3	25.2	25.0	25.3	23.4	23.0	21.0
90°	4.9	7.1	9.4	11.5	13.5	15.1	16.7	18.3	19.9	21.0	22.3
92.5°	11.5	11.6	11.8	11.9	12.8	14.4	16.0	17.6	19.2	20.3	21.6
95°	42.9	36.0	29.2	22.4	19.1	19.3	19.4	19.7	19.9	21.0	22.3
97.5°	109.8	114.0	118.3	122.5	113.5	91.0	68.7	46.3	23.8	24.0	24.1
100°	151.8	155.4	159.0	162.6	150.6	122.9	95.1	67.5	39.8	36.4	32.9
102.5°	198.5	201.2	203.8	206.4	206.0	202.4	198.8	195.1	191.5	154.7	117.9
105°	273.1	274.4	275.5	276.8	277.9	278.8	279.9	280.9	281.9	283.7	285.5
107.5°	343.2	343.8	344.4	345.0	346.0	347.3	348.7	350.1	351.4	352.3	353.2
110°	390.9	391.5	392.1	392.7	393.6	394.8	396.0	397.3	398.4	398.9	399.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	437.7	438.7	439.8	440.9	441.8	442.3	442.8	443.4	444.0	443.9	443.8
115°	508.4	509.0	509.5	510.1	510.3	510.1	510.0	509.8	509.5	510.0	510.3
117.5°	572.7	573.5	574.3	575.1	575.7	576.1	576.6	577.0	577.5	577.4	577.3
120°	616.1	616.9	617.7	618.5	618.8	618.6	618.4	618.1	618.0	618.4	618.8
122.5°	656.2	656.7	657.2	657.6	658.1	658.4	658.6	658.9	659.2	659.4	659.7
125°	714.5	715.3	716.1	716.9	717.1	716.8	716.3	716.0	715.5	716.1	716.8
127.5°	768.8	769.1	769.3	769.5	770.0	771.0	771.9	772.8	773.7	773.6	773.5
130°	804.3	804.5	804.7	804.9	805.3	805.9	806.5	807.1	807.7	807.9	808.1
132.5°	837.0	837.3	837.7	838.0	838.7	839.4	840.2	840.9	841.7	841.9	842.0
135°	885.2	885.0	884.8	884.6	884.9	885.7	886.5	887.3	888.1	888.5	888.9
137.5°	928.6	928.7	928.8	928.9	929.3	930.2	931.1	932.0	932.9	933.4	933.8
140°	957.2	957.6	958.0	958.4	958.8	959.2	959.6	960.0	960.4	961.0	961.6
142.5°	982.8	983.5	984.3	985.0	985.4	985.7	985.9	986.1	986.4	986.9	987.3
145°	1021.5	1022.1	1022.7	1023.3	1023.6	1023.6	1023.6	1023.6	1023.6	1023.9	1024.0
147.5°	1052.9	1054.1	1055.2	1056.3	1056.8	1056.6	1056.4	1056.1	1056.0	1056.1	1056.3
150°	1075.0	1075.8	1076.7	1077.5	1077.7	1077.5	1077.4	1077.1	1076.9	1076.9	1076.9
152.5°	1093.7	1094.3	1094.9	1095.6	1095.7	1095.4	1095.0	1094.7	1094.3	1094.6	1094.9
155°	1119.6	1119.8	1120.0	1120.2	1120.0	1119.4	1118.8	1118.2	1117.6	1118.4	1119.2
157.5°	1141.5	1141.4	1141.2	1141.1	1140.8	1140.1	1139.3	1138.7	1138.0	1139.1	1140.1
160°	1154.1	1153.4	1152.8	1152.2	1151.8	1151.6	1151.4	1151.2	1151.0	1152.2	1153.4
162.5°	1165.5	1164.7	1163.9	1163.1	1162.6	1162.4	1162.3	1162.1	1161.8	1163.1	1164.2
165°	1179.8	1178.8	1177.8	1176.8	1176.3	1176.3	1176.3	1176.3	1176.3	1177.9	1179.6
167.5°	1191.3	1190.3	1189.3	1188.2	1187.7	1187.5	1187.4	1187.3	1187.1	1188.9	1190.7
170°	1197.7	1196.5	1195.2	1194.1	1193.6	1193.7	1194.0	1194.2	1194.4	1196.0	1197.6
172.5°	1202.0	1200.8	1199.6	1198.4	1197.9	1198.1	1198.3	1198.5	1198.7	1200.3	1201.9
175°	1206.8	1205.5	1204.3	1203.1	1202.7	1202.8	1203.0	1203.2	1203.5	1205.2	1207.0
177.5°	1209.0	1207.8	1206.8	1205.6	1205.2	1205.5	1205.9	1206.1	1206.5	1207.7	1209.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1811.5	1812.7	1817.8	1821.8	1822.9	1828.5	1829.2
5°	1970.7	1982.8	2006.3	2008.4	2012.0	2030.5	2016.2
7.5°	2157.2	2188.0	2208.5	2226.6	2233.1	2241.2	2239.5
10°	2276.8	2322.4	2345.2	2381.5	2382.9	2392.2	2386.5
12.5°	2397.0	2450.0	2491.5	2498.2	2528.7	2533.4	2541.4
15°	2567.3	2623.5	2681.2	2701.9	2743.9	2753.9	2769.5
17.5°	2727.4	2784.9	2825.3	2878.7	2895.9	2919.0	2903.3
20°	2815.0	2877.7	2929.0	2971.0	2988.7	3001.6	3000.2
22.5°	2868.0	2931.2	2972.8	3004.6	3021.2	3026.6	3026.4
25°	2901.2	2937.5	2950.3	2962.4	2943.9	2937.5	2940.3
27.5°	2809.0	2799.5	2766.1	2722.2	2676.6	2640.4	2620.8
30°	2681.9	2626.4	2575.9	2487.5	2442.0	2414.9	2390.8
32.5°	2502.0	2414.0	2316.7	2235.8	2184.0	2143.9	2137.9
35°	2193.5	2061.1	1942.2	1843.3	1792.0	1748.6	1738.6
37.5°	1864.9	1727.3	1620.2	1533.1	1478.0	1447.4	1418.8
40°	1646.7	1528.6	1423.2	1349.2	1307.2	1285.0	1267.3
42.5°	1478.7	1370.8	1266.0	1209.6	1171.6	1158.1	1147.6
45°	1246.6	1146.2	1073.6	1030.9	1008.8	986.1	975.4
47.5°	1060.8	979.1	931.2	894.9	871.3	857.7	851.0
50°	955.5	888.5	845.8	818.1	796.7	786.0	780.3
52.5°	862.0	807.1	771.2	749.1	734.6	726.7	724.5
55°	742.5	700.5	677.8	658.5	647.9	640.8	637.9
57.5°	645.4	613.1	594.6	578.8	574.7	568.7	566.7
60°	581.7	556.8	541.1	530.4	526.8	519.7	521.1
62.5°	525.3	504.9	491.5	485.4	480.7	474.7	476.7
65°	444.3	429.3	422.2	416.5	410.8	407.2	410.1
67.5°	372.7	362.6	352.8	349.6	346.7	346.2	343.1
70°	326.1	317.5	309.0	306.8	306.8	304.0	303.3
72.5°	281.1	274.8	269.1	267.5	265.3	266.4	263.4
75°	217.1	212.1	210.0	207.9	207.1	207.1	205.0
77.5°	160.5	156.8	153.4	153.4	150.8	149.8	149.5
80°	121.7	120.3	117.4	117.4	116.0	116.7	115.3
82.5°	91.6	89.5	89.0	87.8	85.9	86.0	84.6
85°	49.1	47.0	46.3	44.1	42.7	44.1	42.7
87.5°	21.8	21.5	21.0	20.0	19.5	19.6	17.9
90°	23.5	24.7	25.5	25.9	26.3	26.7	27.1
92.5°	22.7	24.0	24.6	24.7	24.8	24.9	25.0
95°	23.5	24.7	25.4	25.6	25.8	26.0	26.2
97.5°	24.3	24.3	24.5	24.7	24.9	25.1	25.3
100°	29.5	26.1	24.5	24.7	24.9	25.1	25.3
102.5°	81.1	44.2	25.9	25.9	25.9	25.9	26.0
105°	287.3	289.1	286.4	279.2	272.0	264.7	257.5
107.5°	354.1	355.0	355.8	356.6	357.3	358.1	358.8
110°	399.7	400.0	400.6	401.2	401.7	402.3	403.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	443.7	443.6	444.0	444.8	445.5	446.3	447.0
115°	510.8	511.1	511.4	511.4	511.4	511.4	511.4
117.5°	577.3	577.2	577.1	577.0	576.9	576.8	576.8
120°	619.2	619.6	619.6	619.2	618.8	618.4	618.0
122.5°	659.9	660.1	660.0	659.7	659.2	658.9	658.4
125°	717.4	717.9	718.4	718.5	718.7	719.0	719.2
127.5°	773.4	773.2	773.1	772.9	772.8	772.6	772.5
130°	808.3	808.5	808.6	808.6	808.6	808.6	808.6
132.5°	842.3	842.5	842.5	842.3	842.1	842.0	841.9
135°	889.3	889.7	890.1	890.6	890.9	891.4	891.7
137.5°	934.2	934.7	934.9	934.7	934.6	934.5	934.3
140°	962.2	962.8	963.2	963.4	963.6	963.8	964.0
142.5°	987.7	988.2	988.4	988.5	988.5	988.6	988.6
145°	1024.2	1024.4	1024.8	1025.1	1025.6	1025.9	1026.4
147.5°	1056.4	1056.6	1056.8	1057.0	1057.2	1057.4	1057.6
150°	1076.9	1076.9	1077.0	1077.2	1077.5	1077.6	1077.8
152.5°	1095.2	1095.6	1095.6	1095.6	1095.4	1095.3	1095.2
155°	1120.0	1120.8	1120.9	1120.3	1119.7	1119.1	1118.5
157.5°	1141.1	1142.2	1142.2	1141.1	1140.1	1139.1	1138.0
160°	1154.6	1155.8	1155.8	1154.6	1153.4	1152.2	1151.0
162.5°	1165.5	1166.6	1166.6	1165.2	1163.9	1162.5	1161.1
165°	1181.2	1182.8	1182.6	1180.8	1179.0	1177.2	1175.4
167.5°	1192.5	1194.2	1194.1	1192.1	1190.1	1188.1	1186.1
170°	1199.2	1200.8	1200.6	1198.5	1196.6	1194.5	1192.6
172.5°	1203.5	1205.1	1204.9	1202.7	1200.5	1198.4	1196.1
175°	1208.8	1210.7	1210.3	1207.9	1205.5	1203.1	1200.7
177.5°	1210.3	1211.7	1211.3	1209.3	1207.5	1205.5	1203.6
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9

(END OF REPORT)