

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: P331411-940

Luminaire Tested: **S122DIP-S865D1080U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331411-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D1080U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7239.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

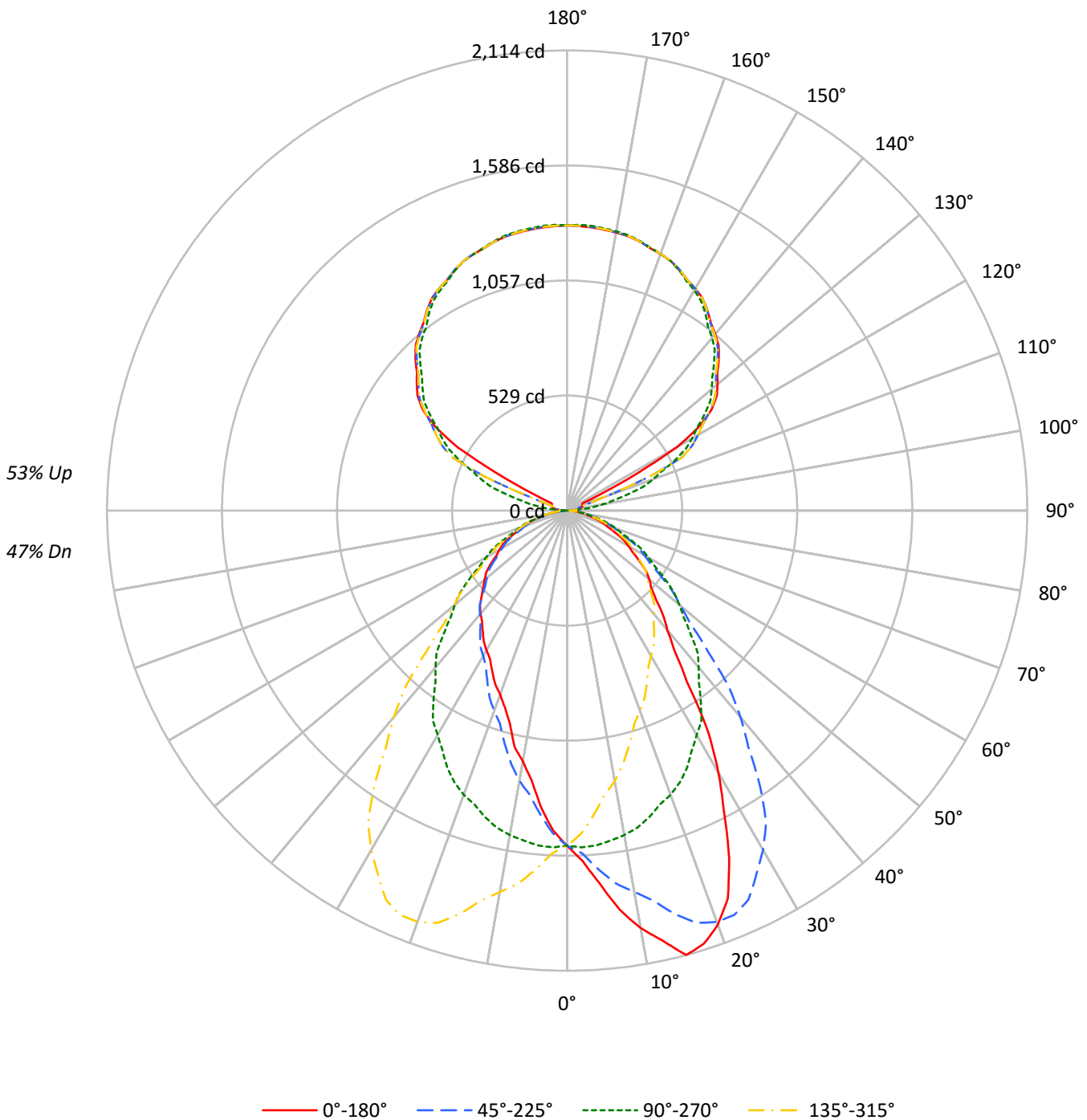
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	28	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	2.0
10°-20°	426.3	5.9
20°-30°	618.6	8.5
30°-40°	652.8	9.0
40°-50°	578.0	8.0
50°-60°	461.3	6.4
60°-70°	313.5	4.3
70°-80°	160.7	2.2
80°-90°	42.0	0.6
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°	1191.5	16.5
0°-40°	1844.3	25.5
0°-60°	2883.6	39.8
0°-90°	3399.8	47.0
90°-120°	632.3	8.7
90°-150°	2790.4	38.5
90°-180°	3839.0	53.0
0°-180°	7239.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	36
90°	26	1	26	1	26	13
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	17.4	17.3	17.7	17.2	17.1	17.4	17.2	16.5	16.8	17.0	17.2
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	17.3	16.9	16.7	17.2	15.3	14.8	12.5	10.6	10.6	10.6	10.1
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: P331411-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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



TEST NUMBER: P331411-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	10.1	10.0	9.9	10.3	10.1	10.0	9.7	9.9	10.1	9.4	9.5
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



TEST NUMBER: P331411-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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



TEST NUMBER: P331411-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	9.6	9.2	9.3	8.9	9.3	9.2	9.6	9.5	9.4	10.1	9.9
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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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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	9.7	10.0	10.1	10.3	9.9	10.0	10.1	10.1	10.6	10.6	10.6
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



TEST NUMBER: P331411-940

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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



TEST NUMBER: P331411-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.5	14.8	15.3	17.2	16.7	16.9	17.3	17.2	17.0	16.8	16.5
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°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	17.2	17.4	17.1	17.2	17.7	17.3	17.4
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)