

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: P332168-830

Luminaire Tested: **S123DIW-S775D1320U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332168-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S775D1320U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053.1 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

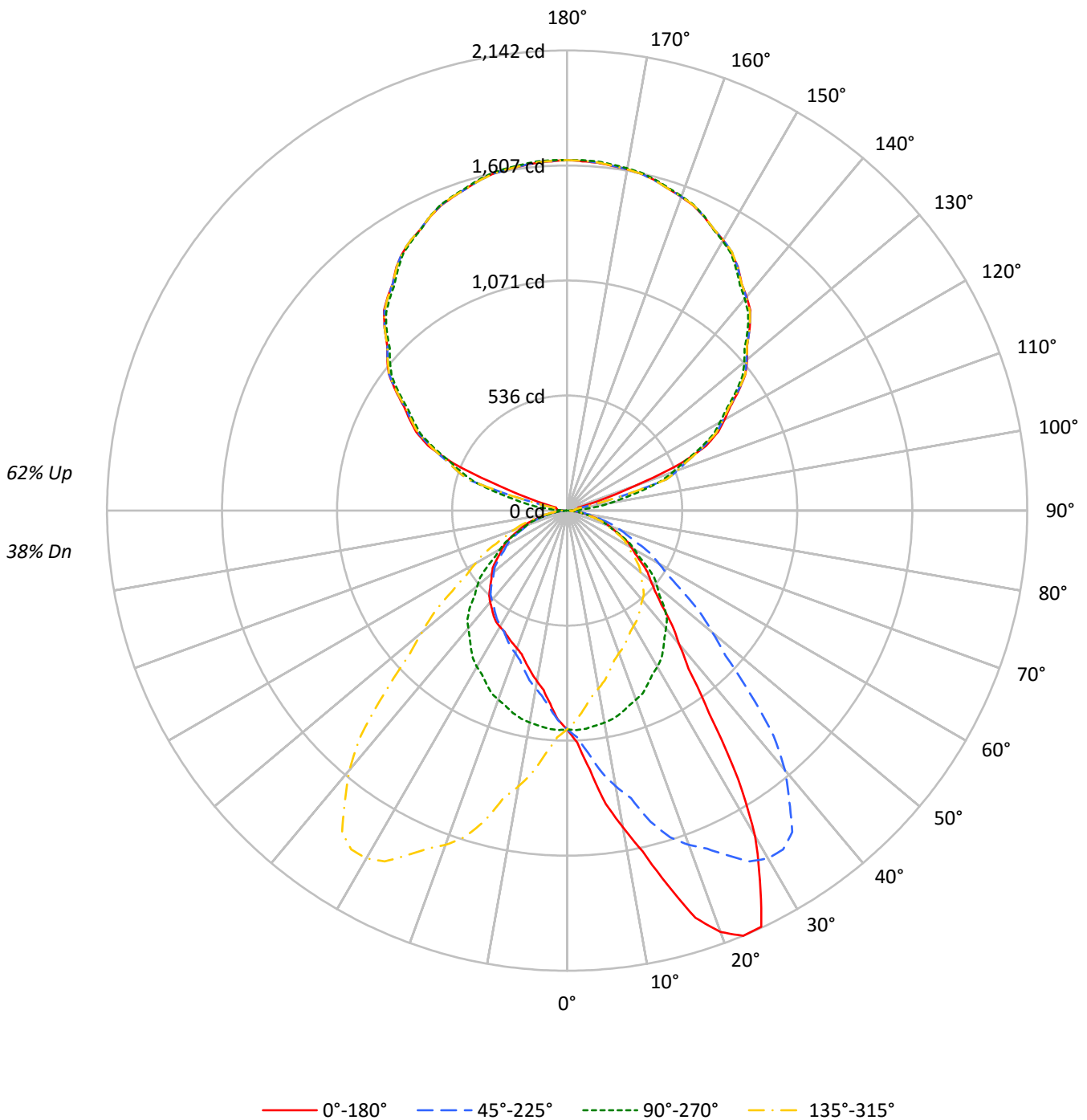
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28				
3	79	70	63	58	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18				
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10962	10962	10962	10962
5°	13073	11010	9757	11010
10°	16363	10954	8813	10954
15°	20070	10866	8204	10866
20°	23909	10727	7811	10727
25°	25388	10561	7725	10561
30°	21760	10438	7764	10438
35°	15134	10264	7846	10264
40°	11398	10061	7821	10061
45°	9464	9758	7722	9758
50°	8477	9138	7651	9138
55°	7927	8473	7557	8473
60°	7436	7776	7479	7776
65°	6989	7088	7238	7088
70°	6552	6304	6892	6304
75°	5868	5519	6317	5519
80°	5139	4525	5442	4525
85°	4026	3298	3656	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.2
10°-20°	321.7	4.0
20°-30°	539.9	6.7
30°-40°	611.3	7.6
40°-50°	548.2	6.8
50°-60°	442.4	5.5
60°-70°	308.3	3.8
70°-80°	162.0	2.0
80°-90°	44.2	0.5
90°-100°	59.3	0.7
100°-110°	282.7	3.5
110°-120°	679.0	8.4
120°-130°	864.6	10.7
130°-140°	923.8	11.5
140°-150°	863.8	10.7
150°-160°	696.8	8.7
160°-170°	449.7	5.6
170°-180°	155.0	1.9
0°-30°	961.9	11.9
0°-40°	1573.3	19.5
0°-60°	2563.9	31.8
0°-90°	3078.5	38.2
90°-120°	1020.9	12.7
90°-150°	3673.1	45.6
90°-180°	4975.0	61.8
0°-180°	8053.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1018	1018	1018	1018	1018	
5°	1210	1019	903	1019	1210	125
15°	1801	975	736	975	1801	520
25°	2138	889	650	889	2138	937
35°	1152	781	597	781	1152	748
45°	622	641	507	641	622	492
55°	422	452	403	452	422	379
65°	274	278	284	278	274	273
75°	141	133	152	133	141	151
85°	33	27	30	27	33	39
90°	36	1	36	1	36	18
95°	46	74	46	74	46	39
105°	53	361	53	361	53	122
115°	713	678	713	678	713	658
125°	974	955	974	955	974	870
135°	1201	1189	1201	1189	1201	926
145°	1385	1372	1385	1372	1385	865
155°	1509	1511	1509	1511	1509	696
165°	1590	1594	1590	1594	1590	449
175°	1625	1631	1625	1631	1625	155
180°	1631	1631	1631	1631	1631	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1080.8	1080.1	1078.1	1079.7	1076.5	1072.1	1071.8	1067.8	1056.3	1055.6	1052.4
5°	1209.9	1206.0	1205.5	1204.9	1198.1	1188.7	1170.9	1169.4	1145.8	1133.9	1119.6
7.5°	1377.1	1379.1	1372.0	1365.6	1344.5	1330.6	1311.5	1287.1	1258.1	1228.6	1208.9
10°	1497.1	1513.3	1493.2	1479.3	1466.5	1442.3	1414.2	1379.1	1344.2	1303.2	1272.1
12.5°	1625.8	1633.8	1629.8	1616.7	1596.8	1560.0	1510.1	1471.5	1439.3	1371.0	1343.5
15°	1801.0	1831.2	1811.9	1767.5	1768.5	1733.4	1668.3	1596.8	1558.8	1499.0	1417.7
17.5°	1987.7	1991.5	1983.3	1946.4	1921.7	1873.5	1813.4	1744.8	1667.8	1595.5	1509.2
20°	2087.3	2084.2	2067.0	2047.8	2005.4	1967.8	1902.2	1825.7	1727.0	1656.0	1561.7
22.5°	2142.5	2137.6	2129.4	2113.3	2077.9	2037.7	1978.8	1895.2	1801.3	1703.4	1594.5
25°	2137.6	2144.0	2144.9	2140.5	2128.2	2104.0	2057.7	1991.0	1897.2	1771.4	1657.9
27.5°	1944.2	1953.2	1979.6	2003.0	2029.1	2055.8	2052.2	2019.1	1949.7	1841.2	1702.3
30°	1750.7	1731.0	1779.8	1841.5	1883.5	1957.5	1998.9	2001.4	1962.4	1869.2	1733.9
32.5°	1482.2	1504.0	1525.6	1601.5	1693.2	1776.3	1858.8	1925.2	1932.8	1870.8	1752.5
35°	1151.7	1178.8	1218.3	1257.7	1356.5	1441.3	1586.4	1712.7	1813.4	1826.7	1754.2
37.5°	928.0	941.5	966.5	1006.0	1070.5	1171.2	1283.5	1443.1	1588.9	1697.4	1702.1
40°	811.2	815.2	843.3	873.4	925.7	1008.6	1109.7	1250.8	1425.5	1577.1	1640.2
42.5°	723.6	732.3	744.2	773.1	814.7	877.1	971.2	1087.8	1247.9	1422.3	1545.9
45°	621.7	631.6	639.0	658.3	687.9	729.8	795.4	902.0	1023.9	1204.0	1370.3
47.5°	554.4	555.3	560.7	575.2	595.4	626.9	673.3	741.8	853.7	999.7	1170.4
50°	506.2	514.2	516.1	527.4	543.3	566.5	604.9	663.2	755.0	883.3	1040.2
52.5°	472.3	474.7	480.2	488.4	502.2	520.3	553.6	599.3	671.3	780.6	924.9
55°	422.4	422.4	427.8	434.2	442.1	458.4	480.6	514.2	568.9	653.8	773.3
57.5°	376.2	378.6	382.5	384.5	391.2	402.0	420.5	446.0	486.8	552.1	647.1
60°	345.4	349.9	349.4	353.3	359.2	367.6	383.4	404.2	440.6	492.9	572.9
62.5°	318.6	318.3	318.2	322.9	328.9	336.9	347.0	365.0	396.1	442.4	510.5
65°	274.4	273.3	276.8	279.7	281.7	287.7	295.6	311.3	332.1	366.6	419.4
67.5°	235.1	232.2	234.1	235.1	238.5	243.1	250.4	260.2	276.7	304.4	344.2
70°	208.2	205.8	205.3	206.2	209.2	212.6	218.1	227.4	242.8	264.9	294.1
72.5°	180.6	178.9	178.8	181.0	182.4	184.6	188.5	197.1	209.2	225.9	253.1
75°	141.1	141.1	141.1	141.6	143.1	145.1	148.1	152.5	161.8	173.7	191.9
77.5°	105.8	105.7	105.1	105.0	107.2	108.1	108.8	112.9	118.1	126.1	139.4
80°	82.9	80.4	81.4	82.9	83.9	84.4	85.9	86.8	91.3	95.8	105.1
82.5°	61.5	59.5	59.7	62.0	62.2	62.7	64.2	65.5	67.2	71.3	76.3
85°	32.6	32.6	33.1	33.1	33.6	33.1	34.5	35.1	35.1	37.5	40.4
87.5°	19.1	18.2	18.5	18.8	18.3	18.6	18.7	18.9	19.0	19.2	18.9
90°	36.4	35.8	35.3	34.8	34.2	33.4	32.3	31.2	30.2	29.1	25.5
92.5°	40.2	39.9	39.6	39.3	38.9	37.9	36.2	34.5	32.7	31.0	28.4
95°	46.1	46.1	46.1	46.1	46.1	45.1	43.3	41.4	39.5	37.6	34.6
97.5°	50.0	49.7	49.4	49.1	48.8	47.6	45.5	43.4	41.2	39.0	58.4
100°	50.9	50.6	50.3	50.0	49.9	48.6	46.5	44.3	42.1	40.0	82.0
102.5°	51.8	51.4	50.9	50.4	50.0	53.1	59.7	66.4	73.0	79.7	125.6
105°	53.3	52.8	52.2	51.7	51.2	74.7	122.4	170.0	217.7	265.4	289.6
107.5°	167.5	203.4	239.3	275.3	311.2	346.7	381.6	416.6	451.5	486.4	482.7
110°	333.3	371.8	410.3	448.8	487.3	511.0	519.9	528.8	537.7	546.6	543.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	571.8	579.9	588.1	596.2	604.4	608.3	608.1	608.0	607.8	607.7	604.7
115°	712.7	711.5	710.5	709.4	708.3	706.4	703.7	701.1	698.3	695.7	693.2
117.5°	791.6	791.5	791.2	791.0	790.8	789.6	787.4	785.3	783.2	781.0	779.8
120°	845.9	845.9	845.9	845.9	845.9	844.9	842.7	840.6	838.4	836.2	835.5
122.5°	899.3	899.1	898.8	898.6	898.4	897.6	896.1	894.6	893.1	891.6	890.5
125°	974.4	973.8	973.4	972.8	972.2	971.7	971.2	970.6	970.1	969.6	968.5
127.5°	1046.6	1047.2	1047.7	1048.3	1048.8	1048.7	1047.7	1046.9	1046.0	1045.2	1043.9
130°	1093.2	1093.7	1094.3	1094.8	1095.3	1095.0	1094.0	1092.9	1091.8	1090.7	1089.7
132.5°	1135.9	1136.6	1137.4	1138.1	1138.9	1138.7	1137.6	1136.5	1135.5	1134.3	1133.5
135°	1201.1	1201.8	1202.7	1203.4	1204.3	1204.3	1203.4	1202.7	1201.8	1201.1	1200.0
137.5°	1262.3	1262.9	1263.5	1263.9	1264.5	1264.1	1262.8	1261.6	1260.3	1259.0	1258.4
140°	1299.2	1299.8	1300.2	1300.8	1301.4	1301.1	1300.0	1298.9	1297.9	1296.8	1296.0
142.5°	1333.1	1333.9	1334.6	1335.4	1336.1	1336.1	1335.2	1334.4	1333.5	1332.7	1331.8
145°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.0	1384.4	1383.9	1383.4	1382.8	1382.3
147.5°	1424.0	1425.3	1426.5	1427.8	1429.0	1429.4	1428.8	1428.2	1427.8	1427.2	1426.6
150°	1453.1	1454.0	1454.7	1455.6	1456.3	1456.5	1455.9	1455.4	1454.9	1454.3	1453.8
152.5°	1476.4	1477.6	1478.8	1480.1	1481.4	1481.5	1480.5	1479.5	1478.6	1477.6	1477.2
155°	1508.9	1510.5	1512.1	1513.7	1515.3	1515.5	1514.1	1512.8	1511.5	1510.0	1509.9
157.5°	1536.3	1538.3	1540.5	1542.6	1544.6	1544.9	1543.3	1541.7	1540.0	1538.4	1538.7
160°	1553.7	1555.6	1557.5	1559.3	1561.2	1561.4	1559.8	1558.1	1556.5	1554.9	1555.2
162.5°	1570.2	1571.9	1573.6	1575.2	1576.9	1576.8	1575.0	1573.1	1571.3	1569.4	1569.7
165°	1590.1	1592.0	1593.8	1595.7	1597.6	1597.5	1595.3	1593.2	1591.0	1588.8	1589.1
167.5°	1604.4	1606.6	1608.7	1610.8	1613.0	1613.0	1610.8	1608.7	1606.6	1604.4	1604.4
170°	1613.1	1615.2	1617.4	1619.6	1621.7	1621.7	1619.6	1617.4	1615.2	1613.1	1613.1
172.5°	1618.0	1620.3	1622.7	1625.0	1627.4	1627.6	1625.4	1623.2	1621.1	1618.9	1618.7
175°	1625.2	1627.4	1629.6	1631.7	1633.8	1634.0	1632.1	1630.2	1628.3	1626.5	1626.2
177.5°	1627.4	1629.6	1631.7	1633.9	1636.1	1636.3	1634.6	1632.8	1631.1	1629.4	1629.1
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1050.0	1046.9	1043.7	1038.2	1033.5	1026.7	1024.7	1022.4	1015.3	1009.0	1004.3
5°	1114.2	1102.3	1085.1	1069.3	1056.5	1039.2	1029.4	1019.0	1004.2	990.8	980.0
7.5°	1181.3	1158.0	1131.1	1102.1	1075.1	1049.0	1028.0	1009.3	988.5	968.9	953.7
10°	1234.5	1201.0	1163.6	1123.0	1088.5	1055.0	1026.8	1002.2	975.5	952.3	933.1
12.5°	1295.3	1245.7	1193.9	1144.8	1103.9	1057.3	1023.3	991.9	961.7	933.8	912.2
15°	1367.3	1304.2	1242.9	1175.4	1113.2	1055.0	1014.6	975.1	940.0	911.3	883.7
17.5°	1432.9	1361.3	1280.6	1198.4	1123.4	1054.4	997.8	953.1	909.3	874.3	846.8
20°	1470.0	1388.6	1297.2	1211.9	1129.0	1052.0	989.9	936.5	889.2	852.2	821.0
22.5°	1501.9	1406.7	1312.2	1221.0	1128.6	1045.7	975.2	920.4	869.0	832.8	799.7
25°	1535.1	1421.1	1326.3	1219.3	1116.2	1030.3	951.3	889.2	837.8	795.4	761.4
27.5°	1563.5	1420.1	1307.7	1192.5	1096.6	1010.6	926.2	859.6	805.1	759.0	724.4
30°	1582.4	1422.1	1288.4	1174.4	1077.7	988.8	906.9	839.8	782.6	735.7	703.1
32.5°	1594.3	1420.9	1270.6	1149.1	1047.6	969.1	886.0	816.5	757.7	711.6	680.2
35°	1601.2	1412.2	1240.0	1096.9	999.2	922.7	853.2	781.1	719.4	676.5	641.0
37.5°	1587.4	1393.9	1204.5	1046.6	939.6	864.3	805.8	744.4	685.4	638.1	607.6
40°	1565.7	1382.1	1176.9	1011.1	898.5	826.0	776.2	716.0	657.7	612.8	584.2
42.5°	1524.2	1358.0	1146.4	971.6	855.9	783.3	737.5	687.2	632.1	589.9	561.4
45°	1423.1	1305.6	1100.9	912.4	793.0	717.9	677.5	641.0	591.2	550.2	525.5
47.5°	1282.7	1226.8	1034.9	849.9	727.3	655.1	613.0	583.6	547.2	514.2	490.5
50°	1185.2	1162.1	990.3	807.3	683.4	612.8	572.4	545.7	519.6	486.5	464.9
52.5°	1072.7	1087.0	938.2	763.1	638.8	569.4	531.3	510.2	486.4	459.3	440.4
55°	914.4	966.1	848.2	688.8	572.4	506.2	470.2	451.5	437.7	417.5	401.1
57.5°	766.0	832.0	750.9	612.4	507.2	450.2	415.6	395.1	386.3	375.7	362.9
60°	678.0	743.1	681.5	561.0	463.4	409.1	378.4	361.2	352.3	344.9	334.0
62.5°	599.5	665.3	613.5	509.0	420.3	369.9	343.4	326.5	319.5	315.7	306.4
65°	491.4	548.2	513.7	427.8	358.7	314.3	290.1	278.3	271.9	270.4	264.5
67.5°	400.0	443.2	418.0	354.9	300.5	262.1	241.6	231.5	226.6	226.1	221.7
70°	340.0	380.4	361.2	304.0	257.1	227.0	209.2	200.3	197.4	196.9	194.4
72.5°	293.4	321.6	306.3	258.5	222.3	195.0	182.0	172.7	169.4	170.0	168.3
75°	217.1	238.4	229.4	196.4	167.3	149.5	138.6	132.7	129.8	131.3	129.3
77.5°	156.2	169.7	161.6	138.7	120.8	107.9	100.0	96.3	93.7	93.6	92.7
80°	117.9	125.8	121.4	107.5	92.7	81.9	75.5	73.0	71.5	71.1	70.6
82.5°	84.0	90.7	85.5	76.0	65.9	59.4	55.8	52.5	51.5	51.7	51.2
85°	42.4	44.9	42.9	37.0	33.1	30.1	28.1	26.7	25.6	26.1	25.2
87.5°	19.0	18.8	16.9	14.6	13.3	11.6	11.0	9.7	9.4	10.0	10.2
90°	22.1	18.6	15.1	12.0	9.3	6.6	3.9	1.2	3.9	6.6	9.3
92.5°	25.7	23.1	20.5	19.5	20.3	21.0	21.8	22.5	21.8	21.0	20.3
95°	31.7	28.7	25.7	29.8	40.8	51.8	62.9	73.9	62.9	51.8	40.8
97.5°	77.9	97.2	116.6	128.8	133.7	138.6	143.6	148.5	143.6	138.6	133.7
100°	124.0	166.1	208.0	226.4	220.9	215.6	210.2	204.8	210.2	215.6	220.9
102.5°	171.5	217.4	263.3	284.4	280.4	276.5	272.7	268.8	272.7	276.5	280.4
105°	313.9	338.1	362.4	373.0	370.0	367.1	364.1	361.2	364.1	367.1	370.0
107.5°	478.8	475.0	471.2	468.1	465.7	463.4	461.0	458.6	461.0	463.4	465.7
110°	540.6	537.7	534.7	532.2	530.0	527.8	525.8	523.6	525.8	527.8	530.0



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	601.7	598.8	595.8	593.3	591.4	589.5	587.6	585.6	587.6	589.5	591.4
115°	690.8	688.3	686.0	683.9	682.3	680.7	679.1	677.5	679.1	680.7	682.3
117.5°	778.5	777.2	776.0	774.4	772.4	770.4	768.5	766.5	768.5	770.4	772.4
120°	834.6	833.8	833.0	831.4	829.0	826.5	824.2	821.7	824.2	826.5	829.0
122.5°	889.5	888.4	887.4	885.9	883.9	881.9	880.0	878.0	880.0	881.9	883.9
125°	967.4	966.3	965.3	963.7	961.5	959.3	957.2	955.0	957.2	959.3	961.5
127.5°	1042.6	1041.3	1040.0	1038.3	1036.1	1034.0	1031.8	1029.6	1031.8	1034.0	1036.1
130°	1088.6	1087.5	1086.5	1084.9	1082.7	1080.5	1078.4	1076.2	1078.4	1080.5	1082.7
132.5°	1132.7	1131.8	1131.0	1129.4	1127.3	1125.1	1122.9	1120.8	1122.9	1125.1	1127.3
135°	1198.9	1197.8	1196.7	1195.4	1193.7	1192.1	1190.5	1188.9	1190.5	1192.1	1193.7
137.5°	1257.8	1257.2	1256.6	1255.3	1253.2	1251.2	1249.2	1247.1	1249.2	1251.2	1253.2
140°	1295.1	1294.4	1293.5	1292.3	1290.7	1289.1	1287.5	1285.9	1287.5	1289.1	1290.7
142.5°	1331.1	1330.2	1329.5	1328.2	1326.6	1325.0	1323.3	1321.7	1323.3	1325.0	1326.6
145°	1381.8	1381.2	1380.6	1379.5	1377.6	1375.7	1373.9	1372.0	1373.9	1375.7	1377.6
147.5°	1426.1	1425.6	1425.0	1424.2	1422.9	1421.6	1420.4	1419.2	1420.4	1421.6	1422.9
150°	1453.2	1452.7	1452.2	1451.5	1450.7	1449.9	1449.1	1448.3	1449.1	1449.9	1450.7
152.5°	1477.0	1476.7	1476.3	1475.9	1475.6	1475.2	1474.8	1474.4	1474.8	1475.2	1475.6
155°	1509.6	1509.3	1509.0	1509.1	1509.7	1510.2	1510.8	1511.3	1510.8	1510.2	1509.7
157.5°	1539.0	1539.3	1539.5	1539.6	1539.7	1539.8	1539.8	1539.9	1539.8	1539.8	1539.7
160°	1555.5	1555.8	1556.0	1556.2	1556.5	1556.8	1557.1	1557.4	1557.1	1556.8	1556.5
162.5°	1570.0	1570.3	1570.6	1571.0	1571.7	1572.4	1573.1	1573.9	1573.1	1572.4	1571.7
165°	1589.4	1589.7	1590.0	1590.4	1591.3	1592.0	1592.9	1593.7	1592.9	1592.0	1591.3
167.5°	1604.4	1604.4	1604.4	1604.9	1606.0	1607.0	1608.2	1609.2	1608.2	1607.0	1606.0
170°	1613.1	1613.1	1613.1	1613.6	1614.8	1615.8	1616.8	1618.0	1616.8	1615.8	1614.8
172.5°	1618.5	1618.3	1618.1	1618.6	1619.9	1621.2	1622.5	1623.8	1622.5	1621.2	1619.9
175°	1625.9	1625.6	1625.3	1625.9	1627.2	1628.6	1629.9	1631.3	1629.9	1628.6	1627.2
177.5°	1628.9	1628.7	1628.5	1628.9	1630.0	1631.1	1632.1	1633.2	1632.1	1631.1	1630.0
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1001.5	998.7	994.8	988.8	984.1	976.6	976.6	977.8	977.8	977.4	976.6
5°	971.1	963.7	954.8	944.4	933.6	922.7	920.8	916.8	913.9	911.9	909.4
7.5°	939.1	925.9	912.9	898.4	885.2	874.3	866.7	860.4	856.3	852.0	848.9
10°	917.3	901.0	885.7	870.4	853.7	840.4	832.0	826.0	821.6	817.7	815.7
12.5°	891.6	873.0	856.1	841.6	823.2	809.5	801.5	798.8	793.5	785.2	780.9
15°	854.1	836.9	816.6	794.5	785.5	768.7	759.4	755.0	752.0	745.6	743.6
17.5°	822.1	799.5	776.7	760.2	743.7	730.1	724.8	719.3	715.4	710.1	708.6
20°	796.4	776.2	755.4	737.7	720.4	705.6	701.2	697.2	693.2	690.8	688.8
22.5°	770.3	750.2	732.9	716.3	698.0	688.2	683.4	679.1	676.3	674.7	672.7
25°	733.8	716.0	696.7	681.9	667.1	660.7	657.7	655.3	653.3	650.8	650.4
27.5°	701.0	681.6	666.0	652.2	641.6	636.2	633.4	632.2	632.6	633.5	634.0
30°	676.5	658.7	645.9	634.0	624.2	619.3	618.8	618.8	620.8	621.2	622.3
32.5°	654.0	639.4	626.6	615.1	607.7	604.3	606.1	606.1	607.8	609.0	610.8
35°	621.2	608.4	598.5	588.7	582.3	583.7	584.8	585.7	588.1	591.2	593.1
37.5°	589.9	578.8	568.5	560.8	557.9	560.5	562.9	565.0	567.9	570.1	572.1
40°	567.4	559.0	549.2	542.2	543.3	544.8	546.8	549.2	551.7	553.2	555.2
42.5°	546.5	537.7	530.3	524.5	525.9	527.8	529.0	530.3	533.1	535.7	537.0
45°	514.6	507.7	500.9	497.4	498.4	499.4	500.3	501.8	504.3	506.2	506.8
47.5°	478.8	474.0	469.4	466.0	467.6	467.2	468.4	471.6	472.4	473.6	476.4
50°	455.9	451.5	446.1	445.1	445.1	445.1	445.5	449.5	449.5	451.5	453.5
52.5°	430.6	427.8	424.3	422.5	421.8	421.8	423.9	425.8	426.6	429.4	431.4
55°	393.2	390.3	387.4	385.9	384.8	385.9	389.8	390.8	393.2	394.7	396.2
57.5°	354.3	352.0	349.7	348.8	348.6	350.0	352.1	355.1	355.7	360.2	362.5
60°	328.7	325.2	323.2	323.2	322.3	326.7	325.6	330.6	331.6	334.5	338.0
62.5°	302.2	297.6	296.7	296.7	298.1	299.4	300.8	302.9	305.6	309.2	312.0
65°	259.6	257.1	260.5	260.0	259.0	262.0	262.0	264.5	267.4	270.9	276.4
67.5°	219.1	217.9	218.2	218.2	219.7	221.4	222.7	224.9	228.5	232.1	235.6
70°	191.9	193.4	191.0	192.9	194.4	194.9	195.9	198.9	202.8	205.3	209.2
72.5°	165.5	165.4	165.7	166.5	168.0	168.8	169.8	173.2	177.6	179.6	182.8
75°	127.3	126.8	128.3	128.3	130.7	131.8	132.7	134.2	138.2	141.1	143.5
77.5°	92.9	93.6	93.2	94.9	94.3	94.4	97.5	99.0	99.3	105.2	106.5
80°	70.0	71.1	71.5	72.0	72.6	71.5	75.0	76.4	76.4	79.9	82.4
82.5°	50.3	50.9	52.2	52.7	52.8	53.8	54.1	55.1	56.4	57.9	61.1
85°	25.2	26.7	27.1	26.7	27.1	26.1	27.6	28.1	28.7	28.7	28.7
87.5°	10.3	11.3	11.6	12.7	13.0	14.1	14.3	13.8	13.9	15.4	13.9
90°	12.0	15.1	18.6	22.1	25.5	29.1	30.2	31.2	32.3	33.4	34.2
92.5°	19.5	20.5	23.1	25.7	28.4	31.0	32.7	34.5	36.2	37.9	38.9
95°	29.8	25.7	28.7	31.7	34.6	37.6	39.5	41.4	43.3	45.1	46.1
97.5°	128.8	116.6	97.2	77.9	58.4	39.0	41.2	43.4	45.5	47.6	48.8
100°	226.4	208.0	166.1	124.0	82.0	40.0	42.1	44.3	46.5	48.6	49.9
102.5°	284.4	263.3	217.4	171.5	125.6	79.7	73.0	66.4	59.7	53.1	50.0
105°	373.0	362.4	338.1	313.9	289.6	265.4	217.7	170.0	122.4	74.7	51.2
107.5°	468.1	471.2	475.0	478.8	482.7	486.4	451.5	416.6	381.6	346.7	311.2
110°	532.2	534.7	537.7	540.6	543.7	546.6	537.7	528.8	519.9	511.0	487.3



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	593.3	595.8	598.8	601.7	604.7	607.7	607.8	608.0	608.1	608.3	604.4
115°	683.9	686.0	688.3	690.8	693.2	695.7	698.3	701.1	703.7	706.4	708.3
117.5°	774.4	776.0	777.2	778.5	779.8	781.0	783.2	785.3	787.4	789.6	790.8
120°	831.4	833.0	833.8	834.6	835.5	836.2	838.4	840.6	842.7	844.9	845.9
122.5°	885.9	887.4	888.4	889.5	890.5	891.6	893.1	894.6	896.1	897.6	898.4
125°	963.7	965.3	966.3	967.4	968.5	969.6	970.1	970.6	971.2	971.7	972.2
127.5°	1038.3	1040.0	1041.3	1042.6	1043.9	1045.2	1046.0	1046.9	1047.7	1048.7	1048.8
130°	1084.9	1086.5	1087.5	1088.6	1089.7	1090.7	1091.8	1092.9	1094.0	1095.0	1095.3
132.5°	1129.4	1131.0	1131.8	1132.7	1133.5	1134.3	1135.5	1136.5	1137.6	1138.7	1138.9
135°	1195.4	1196.7	1197.8	1198.9	1200.0	1201.1	1201.8	1202.7	1203.4	1204.3	1204.3
137.5°	1255.3	1256.6	1257.2	1257.8	1258.4	1259.0	1260.3	1261.6	1262.8	1264.1	1264.5
140°	1292.3	1293.5	1294.4	1295.1	1296.0	1296.8	1297.9	1298.9	1300.0	1301.1	1301.4
142.5°	1328.2	1329.5	1330.2	1331.1	1331.8	1332.7	1333.5	1334.4	1335.2	1336.1	1336.1
145°	1379.5	1380.6	1381.2	1381.8	1382.3	1382.8	1383.4	1383.9	1384.4	1385.0	1385.3
147.5°	1424.2	1425.0	1425.6	1426.1	1426.6	1427.2	1427.8	1428.2	1428.8	1429.4	1429.0
150°	1451.5	1452.2	1452.7	1453.2	1453.8	1454.3	1454.9	1455.4	1455.9	1456.5	1456.3
152.5°	1475.9	1476.3	1476.7	1477.0	1477.2	1477.6	1478.6	1479.5	1480.5	1481.5	1481.4
155°	1509.1	1509.0	1509.3	1509.6	1509.9	1510.0	1511.5	1512.8	1514.1	1515.5	1515.3
157.5°	1539.6	1539.5	1539.3	1539.0	1538.7	1538.4	1540.0	1541.7	1543.3	1544.9	1544.6
160°	1556.2	1556.0	1555.8	1555.5	1555.2	1554.9	1556.5	1558.1	1559.8	1561.4	1561.2
162.5°	1571.0	1570.6	1570.3	1570.0	1569.7	1569.4	1571.3	1573.1	1575.0	1576.8	1576.9
165°	1590.4	1590.0	1589.7	1589.4	1589.1	1588.8	1591.0	1593.2	1595.3	1597.5	1597.6
167.5°	1604.9	1604.4	1604.4	1604.4	1604.4	1604.4	1606.6	1608.7	1610.8	1613.0	1613.0
170°	1613.6	1613.1	1613.1	1613.1	1613.1	1613.1	1615.2	1617.4	1619.6	1621.7	1621.7
172.5°	1618.6	1618.1	1618.3	1618.5	1618.7	1618.9	1621.1	1623.2	1625.4	1627.6	1627.4
175°	1625.9	1625.3	1625.6	1625.9	1626.2	1626.5	1628.3	1630.2	1632.1	1634.0	1633.8
177.5°	1628.9	1628.5	1628.7	1628.9	1629.1	1629.4	1631.1	1632.8	1634.6	1636.3	1636.1
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	973.8	973.5	976.2	974.2	976.2	973.5	973.8	976.6	977.4	977.8	977.8
5°	906.4	908.0	903.0	903.0	903.0	908.0	906.4	909.4	911.9	913.9	916.8
7.5°	846.4	844.2	844.4	841.8	844.4	844.2	846.4	848.9	852.0	856.3	860.4
10°	809.7	806.8	805.8	806.3	805.8	806.8	809.7	815.7	817.7	821.6	826.0
12.5°	779.3	778.7	772.2	772.3	772.2	778.7	779.3	780.9	785.2	793.5	798.8
15°	743.6	734.2	733.2	736.2	733.2	734.2	743.6	743.6	745.6	752.0	755.0
17.5°	707.8	702.9	703.1	701.6	703.1	702.9	707.8	708.6	710.1	715.4	719.3
20°	688.8	685.9	685.4	681.9	685.4	685.9	688.8	688.8	690.8	693.2	697.2
22.5°	671.5	670.5	670.8	666.9	670.8	670.5	671.5	672.7	674.7	676.3	679.1
25°	649.9	652.3	650.4	650.4	650.4	652.3	649.9	650.4	650.8	653.3	655.3
27.5°	635.3	635.2	634.1	634.1	634.1	635.2	635.3	634.0	633.5	632.6	632.2
30°	624.2	623.7	624.7	624.7	624.7	623.7	624.2	622.3	621.2	620.8	618.8
32.5°	613.1	613.9	614.1	614.4	614.1	613.9	613.1	610.8	609.0	607.8	606.1
35°	596.1	596.5	598.0	597.1	598.0	596.5	596.1	593.1	591.2	588.1	585.7
37.5°	573.0	575.2	574.8	575.5	574.8	575.2	573.0	572.1	570.1	567.9	565.0
40°	555.6	557.1	556.6	556.6	556.6	557.1	555.6	555.2	553.2	551.7	549.2
42.5°	537.8	538.9	537.6	536.9	537.6	538.9	537.8	537.0	535.7	533.1	530.3
45°	508.7	507.7	509.3	507.3	509.3	507.7	508.7	506.8	506.2	504.3	501.8
47.5°	476.2	477.1	477.6	479.0	477.6	477.1	476.2	476.4	473.6	472.4	471.6
50°	454.5	457.4	457.4	456.9	457.4	457.4	454.5	453.5	451.5	449.5	449.5
52.5°	433.1	434.5	436.5	436.4	436.5	434.5	433.1	431.4	429.4	426.6	425.8
55°	400.2	401.1	402.2	402.7	402.2	401.1	400.2	396.2	394.7	393.2	390.8
57.5°	366.0	365.6	368.0	368.7	368.0	365.6	366.0	362.5	360.2	355.7	355.1
60°	342.0	342.0	345.9	347.4	345.9	342.0	342.0	338.0	334.5	331.6	330.6
62.5°	316.3	317.9	321.8	319.7	321.8	317.9	316.3	312.0	309.2	305.6	302.9
65°	278.8	282.8	282.3	284.2	282.3	282.8	278.8	276.4	270.9	267.4	264.5
67.5°	239.6	242.0	245.6	245.9	245.6	242.0	239.6	235.6	232.1	228.5	224.9
70°	213.2	215.7	217.6	219.0	217.6	215.7	213.2	209.2	205.3	202.8	198.9
72.5°	187.5	188.8	193.5	191.4	193.5	188.8	187.5	182.8	179.6	177.6	173.2
75°	147.0	150.5	153.4	151.9	153.4	150.5	147.0	143.5	141.1	138.2	134.2
77.5°	108.8	112.2	113.6	112.4	113.6	112.2	108.8	106.5	105.2	99.3	99.0
80°	85.9	85.4	88.3	87.8	88.3	85.4	85.9	82.4	79.9	76.4	76.4
82.5°	63.0	62.5	63.8	64.2	63.8	62.5	63.0	61.1	57.9	56.4	55.1
85°	30.6	32.0	30.1	29.6	30.1	32.0	30.6	28.7	28.7	28.7	28.1
87.5°	14.0	14.1	13.9	13.6	13.9	14.1	14.0	13.9	15.4	13.9	13.8
90°	34.8	35.3	35.8	36.4	35.8	35.3	34.8	34.2	33.4	32.3	31.2
92.5°	39.3	39.6	39.9	40.2	39.9	39.6	39.3	38.9	37.9	36.2	34.5
95°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	45.1	43.3	41.4
97.5°	49.1	49.4	49.7	50.0	49.7	49.4	49.1	48.8	47.6	45.5	43.4
100°	50.0	50.3	50.6	50.9	50.6	50.3	50.0	49.9	48.6	46.5	44.3
102.5°	50.4	50.9	51.4	51.8	51.4	50.9	50.4	50.0	53.1	59.7	66.4
105°	51.7	52.2	52.8	53.3	52.8	52.2	51.7	51.2	74.7	122.4	170.0
107.5°	275.3	239.3	203.4	167.5	203.4	239.3	275.3	311.2	346.7	381.6	416.6
110°	448.8	410.3	371.8	333.3	371.8	410.3	448.8	487.3	511.0	519.9	528.8



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	596.2	588.1	579.9	571.8	579.9	588.1	596.2	604.4	608.3	608.1	608.0
115°	709.4	710.5	711.5	712.7	711.5	710.5	709.4	708.3	706.4	703.7	701.1
117.5°	791.0	791.2	791.5	791.6	791.5	791.2	791.0	790.8	789.6	787.4	785.3
120°	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	844.9	842.7	840.6
122.5°	898.6	898.8	899.1	899.3	899.1	898.8	898.6	898.4	897.6	896.1	894.6
125°	972.8	973.4	973.8	974.4	973.8	973.4	972.8	972.2	971.7	971.2	970.6
127.5°	1048.3	1047.7	1047.2	1046.6	1047.2	1047.7	1048.3	1048.8	1048.7	1047.7	1046.9
130°	1094.8	1094.3	1093.7	1093.2	1093.7	1094.3	1094.8	1095.3	1095.0	1094.0	1092.9
132.5°	1138.1	1137.4	1136.6	1135.9	1136.6	1137.4	1138.1	1138.9	1138.7	1137.6	1136.5
135°	1203.4	1202.7	1201.8	1201.1	1201.8	1202.7	1203.4	1204.3	1204.3	1203.4	1202.7
137.5°	1263.9	1263.5	1262.9	1262.3	1262.9	1263.5	1263.9	1264.5	1264.1	1262.8	1261.6
140°	1300.8	1300.2	1299.8	1299.2	1299.8	1300.2	1300.8	1301.4	1301.1	1300.0	1298.9
142.5°	1335.4	1334.6	1333.9	1333.1	1333.9	1334.6	1335.4	1336.1	1336.1	1335.2	1334.4
145°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.0	1384.4	1383.9
147.5°	1427.8	1426.5	1425.3	1424.0	1425.3	1426.5	1427.8	1429.0	1429.4	1428.8	1428.2
150°	1455.6	1454.7	1454.0	1453.1	1454.0	1454.7	1455.6	1456.3	1456.5	1455.9	1455.4
152.5°	1480.1	1478.8	1477.6	1476.4	1477.6	1478.8	1480.1	1481.4	1481.5	1480.5	1479.5
155°	1513.7	1512.1	1510.5	1508.9	1510.5	1512.1	1513.7	1515.3	1515.5	1514.1	1512.8
157.5°	1542.6	1540.5	1538.3	1536.3	1538.3	1540.5	1542.6	1544.6	1544.9	1543.3	1541.7
160°	1559.3	1557.5	1555.6	1553.7	1555.6	1557.5	1559.3	1561.2	1561.4	1559.8	1558.1
162.5°	1575.2	1573.6	1571.9	1570.2	1571.9	1573.6	1575.2	1576.9	1576.8	1575.0	1573.1
165°	1595.7	1593.8	1592.0	1590.1	1592.0	1593.8	1595.7	1597.6	1597.5	1595.3	1593.2
167.5°	1610.8	1608.7	1606.6	1604.4	1606.6	1608.7	1610.8	1613.0	1613.0	1610.8	1608.7
170°	1619.6	1617.4	1615.2	1613.1	1615.2	1617.4	1619.6	1621.7	1621.7	1619.6	1617.4
172.5°	1625.0	1622.7	1620.3	1618.0	1620.3	1622.7	1625.0	1627.4	1627.6	1625.4	1623.2
175°	1631.7	1629.6	1627.4	1625.2	1627.4	1629.6	1631.7	1633.8	1634.0	1632.1	1630.2
177.5°	1633.9	1631.7	1629.6	1627.4	1629.6	1631.7	1633.9	1636.1	1636.3	1634.6	1632.8
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	976.6	976.6	984.1	988.8	994.8	998.7	1001.5	1004.3	1009.0	1015.3	1022.4
5°	920.8	922.7	933.6	944.4	954.8	963.7	971.1	980.0	990.8	1004.2	1019.0
7.5°	866.7	874.3	885.2	898.4	912.9	925.9	939.1	953.7	968.9	988.5	1009.3
10°	832.0	840.4	853.7	870.4	885.7	901.0	917.3	933.1	952.3	975.5	1002.2
12.5°	801.5	809.5	823.2	841.6	856.1	873.0	891.6	912.2	933.8	961.7	991.9
15°	759.4	768.7	785.5	794.5	816.6	836.9	854.1	883.7	911.3	940.0	975.1
17.5°	724.8	730.1	743.7	760.2	776.7	799.5	822.1	846.8	874.3	909.3	953.1
20°	701.2	705.6	720.4	737.7	755.4	776.2	796.4	821.0	852.2	889.2	936.5
22.5°	683.4	688.2	698.0	716.3	732.9	750.2	770.3	799.7	832.8	869.0	920.4
25°	657.7	660.7	667.1	681.9	696.7	716.0	733.8	761.4	795.4	837.8	889.2
27.5°	633.4	636.2	641.6	652.2	666.0	681.6	701.0	724.4	759.0	805.1	859.6
30°	618.8	619.3	624.2	634.0	645.9	658.7	676.5	703.1	735.7	782.6	839.8
32.5°	606.1	604.3	607.7	615.1	626.6	639.4	654.0	680.2	711.6	757.7	816.5
35°	584.8	583.7	582.3	588.7	598.5	608.4	621.2	641.0	676.5	719.4	781.1
37.5°	562.9	560.5	557.9	560.8	568.5	578.8	589.9	607.6	638.1	685.4	744.4
40°	546.8	544.8	543.3	542.2	549.2	559.0	567.4	584.2	612.8	657.7	716.0
42.5°	529.0	527.8	525.9	524.5	530.3	537.7	546.5	561.4	589.9	632.1	687.2
45°	500.3	499.4	498.4	497.4	500.9	507.7	514.6	525.5	550.2	591.2	641.0
47.5°	468.4	467.2	467.6	466.0	469.4	474.0	478.8	490.5	514.2	547.2	583.6
50°	445.5	445.1	445.1	445.1	446.1	451.5	455.9	464.9	486.5	519.6	545.7
52.5°	423.9	421.8	421.8	422.5	424.3	427.8	430.6	440.4	459.3	486.4	510.2
55°	389.8	385.9	384.8	385.9	387.4	390.3	393.2	401.1	417.5	437.7	451.5
57.5°	352.1	350.0	348.6	348.8	349.7	352.0	354.3	362.9	375.7	386.3	395.1
60°	325.6	326.7	322.3	323.2	323.2	325.2	328.7	334.0	344.9	352.3	361.2
62.5°	300.8	299.4	298.1	296.7	296.7	297.6	302.2	306.4	315.7	319.5	326.5
65°	262.0	262.0	259.0	260.0	260.5	257.1	259.6	264.5	270.4	271.9	278.3
67.5°	222.7	221.4	219.7	218.2	218.2	217.9	219.1	221.7	226.1	226.6	231.5
70°	195.9	194.9	194.4	192.9	191.0	193.4	191.9	194.4	196.9	197.4	200.3
72.5°	169.8	168.8	168.0	166.5	165.7	165.4	165.5	168.3	170.0	169.4	172.7
75°	132.7	131.8	130.7	128.3	128.3	126.8	127.3	129.3	131.3	129.8	132.7
77.5°	97.5	94.4	94.3	94.9	93.2	93.6	92.9	92.7	93.6	93.7	96.3
80°	75.0	71.5	72.6	72.0	71.5	71.1	70.0	70.6	71.1	71.5	73.0
82.5°	54.1	53.8	52.8	52.7	52.2	50.9	50.3	51.2	51.7	51.5	52.5
85°	27.6	26.1	27.1	26.7	27.1	26.7	25.2	25.2	26.1	25.6	26.7
87.5°	14.3	14.1	13.0	12.7	11.6	11.3	10.3	10.2	10.0	9.4	9.7
90°	30.2	29.1	25.5	22.1	18.6	15.1	12.0	9.3	6.6	3.9	1.2
92.5°	32.7	31.0	28.4	25.7	23.1	20.5	19.5	20.3	21.0	21.8	22.5
95°	39.5	37.6	34.6	31.7	28.7	25.7	29.8	40.8	51.8	62.9	73.9
97.5°	41.2	39.0	58.4	77.9	97.2	116.6	128.8	133.7	138.6	143.6	148.5
100°	42.1	40.0	82.0	124.0	166.1	208.0	226.4	220.9	215.6	210.2	204.8
102.5°	73.0	79.7	125.6	171.5	217.4	263.3	284.4	280.4	276.5	272.7	268.8
105°	217.7	265.4	289.6	313.9	338.1	362.4	373.0	370.0	367.1	364.1	361.2
107.5°	451.5	486.4	482.7	478.8	475.0	471.2	468.1	465.7	463.4	461.0	458.6
110°	537.7	546.6	543.7	540.6	537.7	534.7	532.2	530.0	527.8	525.8	523.6



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	607.8	607.7	604.7	601.7	598.8	595.8	593.3	591.4	589.5	587.6	585.6
115°	698.3	695.7	693.2	690.8	688.3	686.0	683.9	682.3	680.7	679.1	677.5
117.5°	783.2	781.0	779.8	778.5	777.2	776.0	774.4	772.4	770.4	768.5	766.5
120°	838.4	836.2	835.5	834.6	833.8	833.0	831.4	829.0	826.5	824.2	821.7
122.5°	893.1	891.6	890.5	889.5	888.4	887.4	885.9	883.9	881.9	880.0	878.0
125°	970.1	969.6	968.5	967.4	966.3	965.3	963.7	961.5	959.3	957.2	955.0
127.5°	1046.0	1045.2	1043.9	1042.6	1041.3	1040.0	1038.3	1036.1	1034.0	1031.8	1029.6
130°	1091.8	1090.7	1089.7	1088.6	1087.5	1086.5	1084.9	1082.7	1080.5	1078.4	1076.2
132.5°	1135.5	1134.3	1133.5	1132.7	1131.8	1131.0	1129.4	1127.3	1125.1	1122.9	1120.8
135°	1201.8	1201.1	1200.0	1198.9	1197.8	1196.7	1195.4	1193.7	1192.1	1190.5	1188.9
137.5°	1260.3	1259.0	1258.4	1257.8	1257.2	1256.6	1255.3	1253.2	1251.2	1249.2	1247.1
140°	1297.9	1296.8	1296.0	1295.1	1294.4	1293.5	1292.3	1290.7	1289.1	1287.5	1285.9
142.5°	1333.5	1332.7	1331.8	1331.1	1330.2	1329.5	1328.2	1326.6	1325.0	1323.3	1321.7
145°	1383.4	1382.8	1382.3	1381.8	1381.2	1380.6	1379.5	1377.6	1375.7	1373.9	1372.0
147.5°	1427.8	1427.2	1426.6	1426.1	1425.6	1425.0	1424.2	1422.9	1421.6	1420.4	1419.2
150°	1454.9	1454.3	1453.8	1453.2	1452.7	1452.2	1451.5	1450.7	1449.9	1449.1	1448.3
152.5°	1478.6	1477.6	1477.2	1477.0	1476.7	1476.3	1475.9	1475.6	1475.2	1474.8	1474.4
155°	1511.5	1510.0	1509.9	1509.6	1509.3	1509.0	1509.1	1509.7	1510.2	1510.8	1511.3
157.5°	1540.0	1538.4	1538.7	1539.0	1539.3	1539.5	1539.6	1539.7	1539.8	1539.8	1539.9
160°	1556.5	1554.9	1555.2	1555.5	1555.8	1556.0	1556.2	1556.5	1556.8	1557.1	1557.4
162.5°	1571.3	1569.4	1569.7	1570.0	1570.3	1570.6	1571.0	1571.7	1572.4	1573.1	1573.9
165°	1591.0	1588.8	1589.1	1589.4	1589.7	1590.0	1590.4	1591.3	1592.0	1592.9	1593.7
167.5°	1606.6	1604.4	1604.4	1604.4	1604.4	1604.4	1604.9	1606.0	1607.0	1608.2	1609.2
170°	1615.2	1613.1	1613.1	1613.1	1613.1	1613.1	1613.6	1614.8	1615.8	1616.8	1618.0
172.5°	1621.1	1618.9	1618.7	1618.5	1618.3	1618.1	1618.6	1619.9	1621.2	1622.5	1623.8
175°	1628.3	1626.5	1626.2	1625.9	1625.6	1625.3	1625.9	1627.2	1628.6	1629.9	1631.3
177.5°	1631.1	1629.4	1629.1	1628.9	1628.7	1628.5	1628.9	1630.0	1631.1	1632.1	1633.2
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



TEST NUMBER: P332168-830

CATALOG NUMBER: S123DIW-S775D1320U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1026.7	1033.5	1038.2	1043.7	1046.9	1050.0	1052.4	1055.6	1056.3	1067.8
5°	1029.4	1039.2	1056.5	1069.3	1085.1	1102.3	1114.2	1119.6	1133.9	1145.8	1169.4
7.5°	1028.0	1049.0	1075.1	1102.1	1131.1	1158.0	1181.3	1208.9	1228.6	1258.1	1287.1
10°	1026.8	1055.0	1088.5	1123.0	1163.6	1201.0	1234.5	1272.1	1303.2	1344.2	1379.1
12.5°	1023.3	1057.3	1103.9	1144.8	1193.9	1245.7	1295.3	1343.5	1371.0	1439.3	1471.5
15°	1014.6	1055.0	1113.2	1175.4	1242.9	1304.2	1367.3	1417.7	1499.0	1558.8	1596.8
17.5°	997.8	1054.4	1123.4	1198.4	1280.6	1361.3	1432.9	1509.2	1595.5	1667.8	1744.8
20°	989.9	1052.0	1129.0	1211.9	1297.2	1388.6	1470.0	1561.7	1656.0	1727.0	1825.7
22.5°	975.2	1045.7	1128.6	1221.0	1312.2	1406.7	1501.9	1594.5	1703.4	1801.3	1895.2
25°	951.3	1030.3	1116.2	1219.3	1326.3	1421.1	1535.1	1657.9	1771.4	1897.2	1991.0
27.5°	926.2	1010.6	1096.6	1192.5	1307.7	1420.1	1563.5	1702.3	1841.2	1949.7	2019.1
30°	906.9	988.8	1077.7	1174.4	1288.4	1422.1	1582.4	1733.9	1869.2	1962.4	2001.4
32.5°	886.0	969.1	1047.6	1149.1	1270.6	1420.9	1594.3	1752.5	1870.8	1932.8	1925.2
35°	853.2	922.7	999.2	1096.9	1240.0	1412.2	1601.2	1754.2	1826.7	1813.4	1712.7
37.5°	805.8	864.3	939.6	1046.6	1204.5	1393.9	1587.4	1702.1	1697.4	1588.9	1443.1
40°	776.2	826.0	898.5	1011.1	1176.9	1382.1	1565.7	1640.2	1577.1	1425.5	1250.8
42.5°	737.5	783.3	855.9	971.6	1146.4	1358.0	1524.2	1545.9	1422.3	1247.9	1087.8
45°	677.5	717.9	793.0	912.4	1100.9	1305.6	1423.1	1370.3	1204.0	1023.9	902.0
47.5°	613.0	655.1	727.3	849.9	1034.9	1226.8	1282.7	1170.4	999.7	853.7	741.8
50°	572.4	612.8	683.4	807.3	990.3	1162.1	1185.2	1040.2	883.3	755.0	663.2
52.5°	531.3	569.4	638.8	763.1	938.2	1087.0	1072.7	924.9	780.6	671.3	599.3
55°	470.2	506.2	572.4	688.8	848.2	966.1	914.4	773.3	653.8	568.9	514.2
57.5°	415.6	450.2	507.2	612.4	750.9	832.0	766.0	647.1	552.1	486.8	446.0
60°	378.4	409.1	463.4	561.0	681.5	743.1	678.0	572.9	492.9	440.6	404.2
62.5°	343.4	369.9	420.3	509.0	613.5	665.3	599.5	510.5	442.4	396.1	365.0
65°	290.1	314.3	358.7	427.8	513.7	548.2	491.4	419.4	366.6	332.1	311.3
67.5°	241.6	262.1	300.5	354.9	418.0	443.2	400.0	344.2	304.4	276.7	260.2
70°	209.2	227.0	257.1	304.0	361.2	380.4	340.0	294.1	264.9	242.8	227.4
72.5°	182.0	195.0	222.3	258.5	306.3	321.6	293.4	253.1	225.9	209.2	197.1
75°	138.6	149.5	167.3	196.4	229.4	238.4	217.1	191.9	173.7	161.8	152.5
77.5°	100.0	107.9	120.8	138.7	161.6	169.7	156.2	139.4	126.1	118.1	112.9
80°	75.5	81.9	92.7	107.5	121.4	125.8	117.9	105.1	95.8	91.3	86.8
82.5°	55.8	59.4	65.9	76.0	85.5	90.7	84.0	76.3	71.3	67.2	65.5
85°	28.1	30.1	33.1	37.0	42.9	44.9	42.4	40.4	37.5	35.1	35.1
87.5°	11.0	11.6	13.3	14.6	16.9	18.8	19.0	18.9	19.2	19.0	18.9
90°	3.9	6.6	9.3	12.0	15.1	18.6	22.1	25.5	29.1	30.2	31.2
92.5°	21.8	21.0	20.3	19.5	20.5	23.1	25.7	28.4	31.0	32.7	34.5
95°	62.9	51.8	40.8	29.8	25.7	28.7	31.7	34.6	37.6	39.5	41.4
97.5°	143.6	138.6	133.7	128.8	116.6	97.2	77.9	58.4	39.0	41.2	43.4
100°	210.2	215.6	220.9	226.4	208.0	166.1	124.0	82.0	40.0	42.1	44.3
102.5°	272.7	276.5	280.4	284.4	263.3	217.4	171.5	125.6	79.7	73.0	66.4
105°	364.1	367.1	370.0	373.0	362.4	338.1	313.9	289.6	265.4	217.7	170.0
107.5°	461.0	463.4	465.7	468.1	471.2	475.0	478.8	482.7	486.4	451.5	416.6
110°	525.8	527.8	530.0	532.2	534.7	537.7	540.6	543.7	546.6	537.7	528.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	587.6	589.5	591.4	593.3	595.8	598.8	601.7	604.7	607.7	607.8	608.0
115°	679.1	680.7	682.3	683.9	686.0	688.3	690.8	693.2	695.7	698.3	701.1
117.5°	768.5	770.4	772.4	774.4	776.0	777.2	778.5	779.8	781.0	783.2	785.3
120°	824.2	826.5	829.0	831.4	833.0	833.8	834.6	835.5	836.2	838.4	840.6
122.5°	880.0	881.9	883.9	885.9	887.4	888.4	889.5	890.5	891.6	893.1	894.6
125°	957.2	959.3	961.5	963.7	965.3	966.3	967.4	968.5	969.6	970.1	970.6
127.5°	1031.8	1034.0	1036.1	1038.3	1040.0	1041.3	1042.6	1043.9	1045.2	1046.0	1046.9
130°	1078.4	1080.5	1082.7	1084.9	1086.5	1087.5	1088.6	1089.7	1090.7	1091.8	1092.9
132.5°	1122.9	1125.1	1127.3	1129.4	1131.0	1131.8	1132.7	1133.5	1134.3	1135.5	1136.5
135°	1190.5	1192.1	1193.7	1195.4	1196.7	1197.8	1198.9	1200.0	1201.1	1201.8	1202.7
137.5°	1249.2	1251.2	1253.2	1255.3	1256.6	1257.2	1257.8	1258.4	1259.0	1260.3	1261.6
140°	1287.5	1289.1	1290.7	1292.3	1293.5	1294.4	1295.1	1296.0	1296.8	1297.9	1298.9
142.5°	1323.3	1325.0	1326.6	1328.2	1329.5	1330.2	1331.1	1331.8	1332.7	1333.5	1334.4
145°	1373.9	1375.7	1377.6	1379.5	1380.6	1381.2	1381.8	1382.3	1382.8	1383.4	1383.9
147.5°	1420.4	1421.6	1422.9	1424.2	1425.0	1425.6	1426.1	1426.6	1427.2	1427.8	1428.2
150°	1449.1	1449.9	1450.7	1451.5	1452.2	1452.7	1453.2	1453.8	1454.3	1454.9	1455.4
152.5°	1474.8	1475.2	1475.6	1475.9	1476.3	1476.7	1477.0	1477.2	1477.6	1478.6	1479.5
155°	1510.8	1510.2	1509.7	1509.1	1509.0	1509.3	1509.6	1509.9	1510.0	1511.5	1512.8
157.5°	1539.8	1539.8	1539.7	1539.6	1539.5	1539.3	1539.0	1538.7	1538.4	1540.0	1541.7
160°	1557.1	1556.8	1556.5	1556.2	1556.0	1555.8	1555.5	1555.2	1554.9	1556.5	1558.1
162.5°	1573.1	1572.4	1571.7	1571.0	1570.6	1570.3	1570.0	1569.7	1569.4	1571.3	1573.1
165°	1592.9	1592.0	1591.3	1590.4	1590.0	1589.7	1589.4	1589.1	1588.8	1591.0	1593.2
167.5°	1608.2	1607.0	1606.0	1604.9	1604.4	1604.4	1604.4	1604.4	1604.4	1606.6	1608.7
170°	1616.8	1615.8	1614.8	1613.6	1613.1	1613.1	1613.1	1613.1	1613.1	1615.2	1617.4
172.5°	1622.5	1621.2	1619.9	1618.6	1618.1	1618.3	1618.5	1618.7	1618.9	1621.1	1623.2
175°	1629.9	1628.6	1627.2	1625.9	1625.3	1625.6	1625.9	1626.2	1626.5	1628.3	1630.2
177.5°	1632.1	1631.1	1630.0	1628.9	1628.5	1628.7	1628.9	1629.1	1629.4	1631.1	1632.8
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1071.8	1072.1	1076.5	1079.7	1078.1	1080.1	1080.8
5°	1170.9	1188.7	1198.1	1204.9	1205.5	1206.0	1209.9
7.5°	1311.5	1330.6	1344.5	1365.6	1372.0	1379.1	1377.1
10°	1414.2	1442.3	1466.5	1479.3	1493.2	1513.3	1497.1
12.5°	1510.1	1560.0	1596.8	1616.7	1629.8	1633.8	1625.8
15°	1668.3	1733.4	1768.5	1767.5	1811.9	1831.2	1801.0
17.5°	1813.4	1873.5	1921.7	1946.4	1983.3	1991.5	1987.7
20°	1902.2	1967.8	2005.4	2047.8	2067.0	2084.2	2087.3
22.5°	1978.8	2037.7	2077.9	2113.3	2129.4	2137.6	2142.5
25°	2057.7	2104.0	2128.2	2140.5	2144.9	2144.0	2137.6
27.5°	2052.2	2055.8	2029.1	2003.0	1979.6	1953.2	1944.2
30°	1998.9	1957.5	1883.5	1841.5	1779.8	1731.0	1750.7
32.5°	1858.8	1776.3	1693.2	1601.5	1525.6	1504.0	1482.2
35°	1586.4	1441.3	1356.5	1257.7	1218.3	1178.8	1151.7
37.5°	1283.5	1171.2	1070.5	1006.0	966.5	941.5	928.0
40°	1109.7	1008.6	925.7	873.4	843.3	815.2	811.2
42.5°	971.2	877.1	814.7	773.1	744.2	732.3	723.6
45°	795.4	729.8	687.9	658.3	639.0	631.6	621.7
47.5°	673.3	626.9	595.4	575.2	560.7	555.3	554.4
50°	604.9	566.5	543.3	527.4	516.1	514.2	506.2
52.5°	553.6	520.3	502.2	488.4	480.2	474.7	472.3
55°	480.6	458.4	442.1	434.2	427.8	422.4	422.4
57.5°	420.5	402.0	391.2	384.5	382.5	378.6	376.2
60°	383.4	367.6	359.2	353.3	349.4	349.9	345.4
62.5°	347.0	336.9	328.9	322.9	318.2	318.3	318.6
65°	295.6	287.7	281.7	279.7	276.8	273.3	274.4
67.5°	250.4	243.1	238.5	235.1	234.1	232.2	235.1
70°	218.1	212.6	209.2	206.2	205.3	205.8	208.2
72.5°	188.5	184.6	182.4	181.0	178.8	178.9	180.6
75°	148.1	145.1	143.1	141.6	141.1	141.1	141.1
77.5°	108.8	108.1	107.2	105.0	105.1	105.7	105.8
80°	85.9	84.4	83.9	82.9	81.4	80.4	82.9
82.5°	64.2	62.7	62.2	62.0	59.7	59.5	61.5
85°	34.5	33.1	33.6	33.1	33.1	32.6	32.6
87.5°	18.7	18.6	18.3	18.8	18.5	18.2	19.1
90°	32.3	33.4	34.2	34.8	35.3	35.8	36.4
92.5°	36.2	37.9	38.9	39.3	39.6	39.9	40.2
95°	43.3	45.1	46.1	46.1	46.1	46.1	46.1
97.5°	45.5	47.6	48.8	49.1	49.4	49.7	50.0
100°	46.5	48.6	49.9	50.0	50.3	50.6	50.9
102.5°	59.7	53.1	50.0	50.4	50.9	51.4	51.8
105°	122.4	74.7	51.2	51.7	52.2	52.8	53.3
107.5°	381.6	346.7	311.2	275.3	239.3	203.4	167.5
110°	519.9	511.0	487.3	448.8	410.3	371.8	333.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	608.1	608.3	604.4	596.2	588.1	579.9	571.8
115°	703.7	706.4	708.3	709.4	710.5	711.5	712.7
117.5°	787.4	789.6	790.8	791.0	791.2	791.5	791.6
120°	842.7	844.9	845.9	845.9	845.9	845.9	845.9
122.5°	896.1	897.6	898.4	898.6	898.8	899.1	899.3
125°	971.2	971.7	972.2	972.8	973.4	973.8	974.4
127.5°	1047.7	1048.7	1048.8	1048.3	1047.7	1047.2	1046.6
130°	1094.0	1095.0	1095.3	1094.8	1094.3	1093.7	1093.2
132.5°	1137.6	1138.7	1138.9	1138.1	1137.4	1136.6	1135.9
135°	1203.4	1204.3	1204.3	1203.4	1202.7	1201.8	1201.1
137.5°	1262.8	1264.1	1264.5	1263.9	1263.5	1262.9	1262.3
140°	1300.0	1301.1	1301.4	1300.8	1300.2	1299.8	1299.2
142.5°	1335.2	1336.1	1336.1	1335.4	1334.6	1333.9	1333.1
145°	1384.4	1385.0	1385.3	1385.3	1385.3	1385.3	1385.3
147.5°	1428.8	1429.4	1429.0	1427.8	1426.5	1425.3	1424.0
150°	1455.9	1456.5	1456.3	1455.6	1454.7	1454.0	1453.1
152.5°	1480.5	1481.5	1481.4	1480.1	1478.8	1477.6	1476.4
155°	1514.1	1515.5	1515.3	1513.7	1512.1	1510.5	1508.9
157.5°	1543.3	1544.9	1544.6	1542.6	1540.5	1538.3	1536.3
160°	1559.8	1561.4	1561.2	1559.3	1557.5	1555.6	1553.7
162.5°	1575.0	1576.8	1576.9	1575.2	1573.6	1571.9	1570.2
165°	1595.3	1597.5	1597.6	1595.7	1593.8	1592.0	1590.1
167.5°	1610.8	1613.0	1613.0	1610.8	1608.7	1606.6	1604.4
170°	1619.6	1621.7	1621.7	1619.6	1617.4	1615.2	1613.1
172.5°	1625.4	1627.6	1627.4	1625.0	1622.7	1620.3	1618.0
175°	1632.1	1634.0	1633.8	1631.7	1629.6	1627.4	1625.2
177.5°	1634.6	1636.3	1636.1	1633.9	1631.7	1629.6	1627.4
180°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3

(END OF REPORT)