

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: P331817-830

Luminaire Tested: **S122RDIW-S675D1240U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331817-830
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: S122RDIW-S675D1240U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7066.5 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

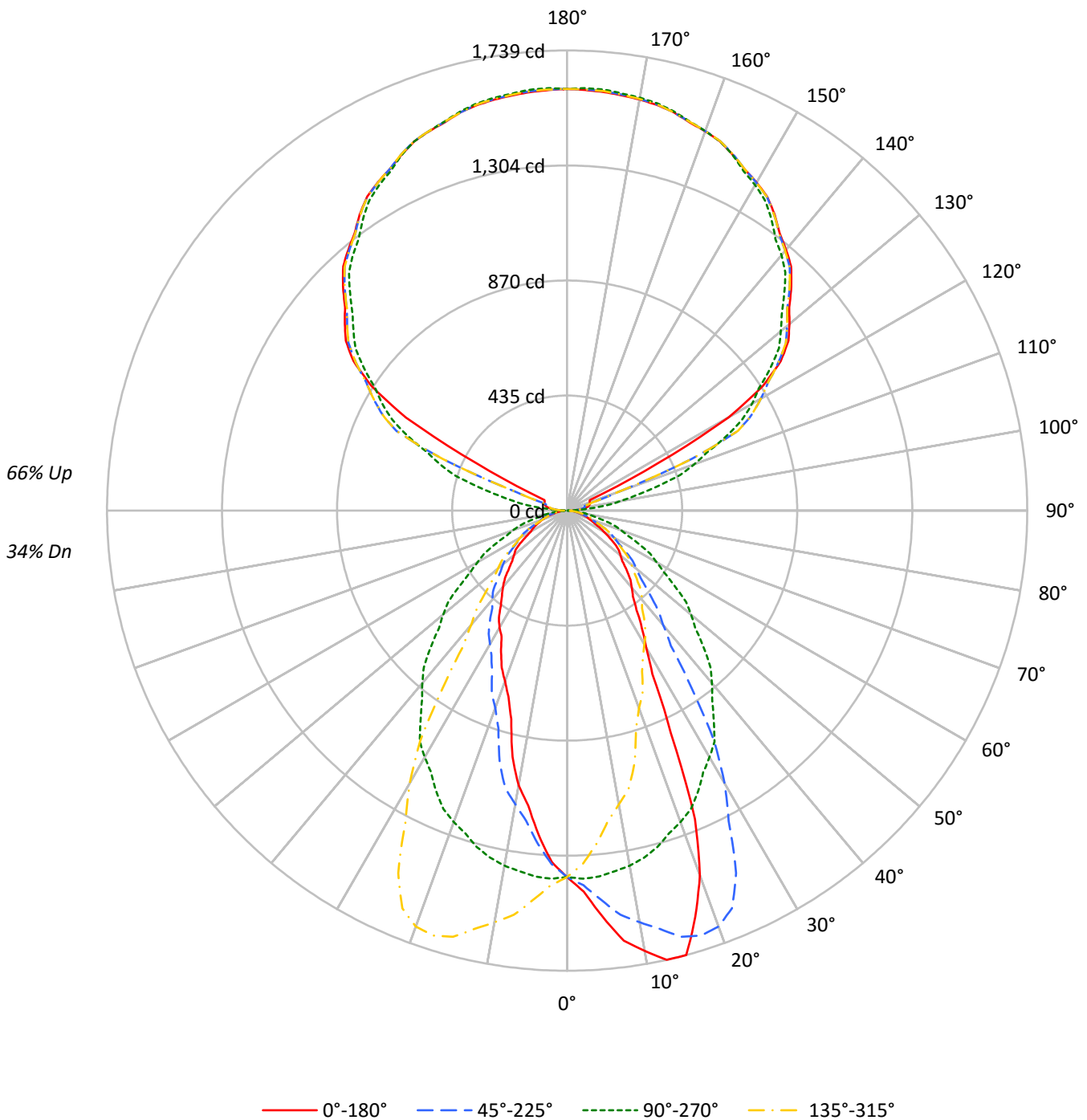
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34																				
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	37	37	36	30																				
2	87	80	74	69	78	72	68	63	58	55	52	45	43	41	33	32	31	26																				
3	79	71	64	58	72	64	58	54	52	48	44	41	38	36	30	29	27	22																				
4	73	63	55	50	66	57	51	46	46	42	38	37	34	31	27	25	24	20																				
5	67	56	49	43	60	51	45	40	42	37	33	33	30	27	25	23	21	18																				
6	62	51	43	37	56	46	40	35	38	33	29	30	27	24	23	21	19	16																				
7	57	46	38	33	52	42	35	31	34	30	26	28	24	22	21	19	17	14																				
8	53	42	34	29	48	38	32	27	32	27	23	25	22	19	20	17	16	13																				
9	50	38	31	26	45	35	29	24	29	24	21	23	20	18	18	16	14	12																				
10	46	35	28	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22357	22357	22357	22357
5°	24969	22498	19947	22498
10°	27702	22338	17290	22338
15°	29065	22011	13623	22011
20°	25197	21526	11789	21526
25°	16527	20861	10525	20861
30°	11123	20057	9527	20057
35°	9008	19042	8592	19042
40°	8011	17939	7950	17939
45°	7250	16643	7099	16643
50°	6599	15360	6574	15360
55°	6204	13937	6120	13937
60°	5189	12633	5125	12633
65°	4374	11469	4963	11469
70°	4046	10244	4683	10244
75°	3780	8914	4323	8914
80°	3487	7336	3849	7336
85°	3205	5798	3390	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.9
10°-20°	365.7	5.2
20°-30°	471.3	6.7
30°-40°	447.9	6.3
40°-50°	383.7	5.4
50°-60°	292.2	4.1
60°-70°	184.7	2.6
70°-80°	92.2	1.3
80°-90°	27.9	0.4
90°-100°	53.1	0.8
100°-110°	194.9	2.8
110°-120°	521.0	7.4
120°-130°	860.1	12.2
130°-140°	914.7	12.9
140°-150°	850.1	12.0
150°-160°	683.5	9.7
160°-170°	440.5	6.2
170°-180°	151.6	2.1
0°-30°	968.3	13.7
0°-40°	1416.2	20.0
0°-60°	2092.1	29.6
0°-90°	2396.9	33.9
90°-120°	769.1	10.9
90°-150°	3394.0	48.0
90°-180°	4670.0	66.1
0°-180°	7066.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1385	1385	1385	1385	1385	
5°	1541	1388	1231	1388	1541	152
15°	1739	1317	815	1317	1739	469
25°	928	1171	591	1171	928	440
35°	457	966	436	966	457	292
45°	318	729	311	729	318	246
55°	220	495	217	495	220	193
65°	114	300	130	300	114	117
75°	61	143	69	143	61	64
85°	17	31	18	31	17	19
90°	31	1	31	1	31	14
95°	50	75	50	75	50	46
105°	88	350	88	350	88	91
115°	94	663	94	663	94	237
125°	986	937	986	937	986	853
135°	1198	1160	1198	1160	1198	923
145°	1366	1346	1366	1346	1366	854
155°	1483	1482	1483	1482	1483	684
165°	1558	1561	1558	1561	1558	440
175°	1588	1597	1588	1597	1588	151
180°	1593	1593	1593	1593	1593	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1440.9	1442.0	1443.2	1440.5	1440.5	1438.1	1433.1	1429.4	1418.5	1417.0	1417.0
5°	1540.6	1539.5	1541.5	1535.3	1526.6	1524.7	1515.5	1503.5	1491.0	1477.1	1474.1
7.5°	1639.6	1638.2	1634.4	1633.3	1626.6	1612.1	1597.4	1581.8	1560.9	1540.7	1530.5
10°	1689.7	1705.6	1695.9	1679.1	1682.5	1659.9	1647.8	1627.2	1609.9	1579.5	1572.8
12.5°	1739.0	1745.2	1742.2	1732.6	1728.2	1712.6	1696.4	1678.4	1646.4	1619.2	1595.5
15°	1738.8	1747.9	1750.3	1747.5	1749.8	1748.9	1740.2	1725.3	1697.4	1667.5	1641.6
17.5°	1610.4	1616.7	1632.6	1643.2	1656.7	1685.2	1699.2	1704.7	1700.5	1683.6	1665.3
20°	1466.5	1455.9	1500.2	1522.8	1542.0	1590.1	1631.4	1647.4	1672.8	1672.4	1667.5
22.5°	1262.4	1265.0	1306.9	1333.8	1390.0	1438.0	1485.3	1545.0	1594.3	1626.9	1646.1
25°	927.7	945.9	987.8	1024.4	1086.8	1176.4	1257.6	1352.0	1441.0	1511.2	1578.1
27.5°	696.6	698.0	731.2	765.0	802.1	875.4	977.8	1090.4	1217.3	1322.0	1442.5
30°	596.6	593.7	607.7	628.4	660.1	716.9	793.8	904.6	1031.0	1188.8	1329.4
32.5°	525.8	525.9	536.5	551.8	578.2	616.4	669.1	759.0	878.6	1033.8	1198.4
35°	457.0	456.6	464.3	475.3	486.4	511.0	547.1	594.2	676.5	821.2	989.7
37.5°	407.8	409.9	413.7	420.6	432.8	446.5	468.2	499.8	558.4	644.0	785.6
40°	380.1	381.1	386.3	392.1	399.4	409.9	427.7	453.2	496.1	564.4	667.8
42.5°	354.7	355.6	359.4	364.8	370.4	381.1	395.8	417.8	452.5	505.9	591.2
45°	317.5	317.5	320.9	323.3	329.6	339.2	351.2	369.5	393.6	433.0	489.7
47.5°	282.7	282.8	285.0	289.2	293.1	300.6	312.5	327.3	344.9	375.4	423.9
50°	262.7	263.2	264.6	268.0	270.4	277.1	286.3	299.3	317.5	341.1	381.5
52.5°	246.6	246.2	248.1	249.5	251.2	256.0	262.8	274.3	290.6	311.1	344.6
55°	220.4	218.4	221.3	223.8	225.2	227.1	230.9	238.2	252.1	269.5	294.5
57.5°	187.7	186.9	188.9	191.1	195.7	200.9	204.1	208.7	215.9	228.4	253.2
60°	160.7	160.7	165.0	166.5	171.7	178.5	185.2	189.1	196.3	204.4	222.7
62.5°	136.9	137.2	139.2	140.7	143.6	151.9	161.4	169.8	176.6	184.5	196.6
65°	114.5	115.5	115.5	116.4	118.4	120.3	124.1	130.8	142.9	153.9	163.1
67.5°	97.2	97.5	97.7	98.7	99.2	101.3	102.8	105.8	108.7	119.1	130.4
70°	85.7	87.1	86.6	87.6	88.0	89.0	91.0	92.4	96.7	99.2	105.8
72.5°	74.8	75.9	75.8	76.4	77.7	77.9	79.4	80.9	83.6	85.7	89.3
75°	60.6	60.1	60.6	61.5	62.0	62.6	62.6	64.5	65.9	67.9	70.2
77.5°	46.8	47.2	47.1	47.2	47.3	48.2	48.1	49.0	50.4	51.4	52.5
80°	37.5	38.0	37.5	38.0	38.5	38.9	38.5	38.9	40.4	41.4	41.4
82.5°	29.0	29.1	29.4	29.5	29.6	29.7	30.4	30.5	31.6	31.4	31.8
85°	17.3	16.9	16.9	16.9	17.3	17.8	17.3	17.3	17.8	17.8	17.8
87.5°	12.3	12.6	12.5	12.4	12.3	12.2	12.0	12.1	11.4	11.5	10.7
90°	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6	24.3	23.1	21.0
92.5°	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1	27.4	26.8	25.7
95°	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5	46.3	45.0	43.2
97.5°	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2	61.2	60.2	56.1
100°	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8	67.8	65.7	61.4
102.5°	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9	70.2	67.6	104.0
105°	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0	73.1	70.3	140.3
107.5°	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7	95.6	98.5	182.4
110°	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5	176.2	201.8	275.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0	415.5	508.9	527.3
115°	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1	592.8	711.4	705.0
117.5°	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6	759.2	788.0	783.5
120°	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3	848.2	845.1	840.6
122.5°	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2	901.4	899.6	894.6
125°	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9	976.1	974.3	969.4
127.5°	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8	1044.2	1041.6	1037.9
130°	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6	1087.8	1085.0	1082.1
132.5°	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1	1130.7	1128.3	1125.5
135°	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8	1191.3	1188.7	1186.4
137.5°	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2	1247.7	1245.2	1242.6
140°	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8	1284.4	1282.1	1279.3
142.5°	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4	1318.3	1316.3	1313.0
145°	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5	1365.7	1364.0	1359.6
147.5°	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6	1407.3	1405.9	1401.7
150°	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9	1432.4	1430.9	1426.7
152.5°	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0	1455.5	1453.9	1450.0
155°	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1	1486.6	1485.1	1482.0
157.5°	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4	1512.6	1510.9	1508.7
160°	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7	1528.0	1526.5	1525.0
162.5°	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9	1542.1	1540.4	1539.1
165°	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6	1556.9
167.5°	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7	1574.0	1572.2	1571.5
170°	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2	1581.4	1579.6	1579.0
172.5°	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7	1586.9	1585.1	1584.6
175°	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7	1592.9	1591.1	1590.6
177.5°	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3	1593.9	1592.5	1592.2
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1417.8	1414.7	1412.0	1405.0	1401.7	1393.9	1392.8	1392.4	1382.3	1372.7	1370.1
5°	1466.5	1458.8	1447.2	1433.7	1419.8	1405.3	1395.7	1388.1	1368.8	1350.5	1339.9
7.5°	1515.5	1499.0	1479.0	1453.6	1432.3	1408.4	1390.7	1374.9	1347.6	1321.4	1303.7
10°	1552.1	1525.1	1498.7	1463.6	1436.2	1409.2	1384.2	1362.5	1331.7	1297.1	1272.5
12.5°	1574.8	1545.2	1508.7	1474.3	1438.9	1404.6	1371.1	1343.3	1307.1	1271.3	1242.2
15°	1605.5	1573.8	1529.5	1480.5	1434.7	1390.0	1351.5	1316.8	1269.7	1226.9	1191.3
17.5°	1630.6	1587.0	1539.4	1482.6	1429.7	1372.8	1323.2	1279.0	1226.5	1174.9	1132.9
20°	1638.7	1595.4	1540.6	1483.8	1421.3	1354.3	1301.0	1252.8	1196.6	1140.3	1092.1
22.5°	1633.7	1600.1	1539.0	1471.1	1407.0	1337.0	1276.7	1220.9	1158.5	1101.0	1045.2
25°	1599.8	1588.2	1530.5	1456.3	1383.3	1301.9	1232.2	1171.0	1099.9	1038.3	977.6
27.5°	1520.5	1545.5	1509.7	1430.8	1349.4	1262.3	1183.8	1114.3	1040.4	971.1	910.7
30°	1444.4	1501.6	1486.2	1413.1	1322.1	1236.5	1148.5	1075.8	996.9	925.7	866.0
32.5°	1340.0	1434.6	1449.6	1388.5	1294.4	1200.3	1108.1	1035.8	953.4	878.4	820.2
35°	1173.9	1315.4	1380.4	1341.3	1247.1	1145.6	1050.3	966.1	883.4	809.3	751.5
37.5°	975.8	1168.5	1276.7	1279.5	1192.9	1087.3	983.6	900.0	815.3	742.5	680.1
40°	847.3	1056.0	1197.0	1228.3	1155.2	1041.1	936.2	851.1	768.4	697.1	625.5
42.5°	731.8	939.8	1113.1	1167.5	1109.4	996.1	890.9	801.8	721.4	654.0	580.8
45°	591.8	773.6	964.7	1061.9	1029.6	924.7	813.6	728.9	653.4	595.1	524.9
47.5°	499.2	627.4	812.2	943.7	943.1	847.3	738.0	657.0	586.9	532.3	475.4
50°	446.5	558.1	714.4	863.7	876.1	795.8	691.8	611.5	546.1	488.8	443.1
52.5°	399.2	491.2	631.7	774.7	810.3	740.7	639.9	565.7	502.2	449.6	410.4
55°	337.2	408.5	515.3	649.0	702.9	653.8	564.4	495.1	443.6	399.4	365.6
57.5°	285.3	338.7	424.4	532.2	594.8	564.0	490.1	433.9	389.8	349.8	323.2
60°	252.6	296.3	369.0	459.0	528.3	506.6	443.6	391.2	353.6	319.0	294.0
62.5°	221.8	259.4	321.7	394.7	458.3	449.3	397.8	353.8	320.9	289.4	268.2
65°	178.5	205.9	254.5	311.8	362.8	367.1	330.1	300.2	270.9	245.8	227.1
67.5°	142.1	160.0	194.3	242.5	280.7	294.4	271.7	248.9	225.6	206.3	190.0
70°	119.8	134.2	159.3	198.2	233.4	247.8	234.8	217.0	196.8	180.9	166.9
72.5°	97.1	111.1	129.6	158.2	188.3	203.9	199.3	186.6	170.2	157.0	143.8
75°	73.1	77.5	90.0	109.2	132.8	146.3	149.7	142.9	129.9	119.8	112.1
77.5°	54.1	56.6	62.7	72.8	88.1	100.2	105.1	104.3	95.4	89.4	82.3
80°	43.3	44.8	47.6	51.9	63.5	75.5	78.9	78.9	72.7	70.2	63.1
82.5°	32.9	33.9	35.7	38.1	43.5	54.0	57.8	58.5	54.6	51.4	45.7
85°	18.8	18.3	19.2	20.6	21.7	24.5	30.3	31.3	30.3	26.5	25.0
87.5°	10.4	10.3	9.9	9.0	8.9	8.7	10.0	11.4	10.5	9.8	9.6
90°	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1	4.0	6.8	9.6
92.5°	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3	23.0	22.8	22.5
95°	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9	66.4	58.1	49.6
97.5°	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7	124.9	101.0	77.3
100°	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1	169.0	133.8	98.8
102.5°	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9	257.5	250.1	242.7
105°	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5	358.2	365.9	373.5
107.5°	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1	454.2	460.4	466.7
110°	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8	516.1	521.5	526.9



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8	574.6	579.3	584.1
115°	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0	667.3	671.7	676.0
117.5°	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2	751.1	755.9	760.8
120°	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1	811.0	814.7	818.6
122.5°	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8	862.8	866.9	870.9
125°	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4	940.7	944.1	947.3
127.5°	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6	1012.3	1016.0	1019.7
130°	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9	1057.9	1062.1	1066.1
132.5°	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9	1103.4	1106.9	1110.4
135°	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9	1163.9	1168.1	1172.1
137.5°	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5	1223.4	1226.2	1229.2
140°	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2	1262.3	1264.3	1266.3
142.5°	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5	1295.2	1297.1	1298.9
145°	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5	1345.3	1345.0	1344.7
147.5°	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9	1390.0	1389.0	1388.0
150°	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5	1418.7	1416.9	1415.0
152.5°	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4	1443.4	1441.3	1439.4
155°	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6	1479.2	1477.0	1474.6
157.5°	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0	1508.0	1506.0	1504.1
160°	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1525.0	1523.4	1521.9
162.5°	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3	1539.7	1538.2	1536.7
165°	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1	1559.6	1558.0	1556.5
167.5°	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9	1574.3	1572.8	1571.3
170°	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2	1582.6	1581.1	1579.6
172.5°	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7	1588.2	1586.7	1585.1
175°	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9	1595.1	1593.3	1591.5
177.5°	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0	1596.6	1595.2	1593.7
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1365.1	1362.4	1357.4	1349.6	1345.0	1336.9	1331.5	1334.6	1335.4	1334.6	1333.9
5°	1328.4	1318.2	1304.3	1290.8	1278.4	1264.9	1257.2	1253.8	1247.1	1243.2	1241.3
7.5°	1284.0	1266.6	1246.9	1223.4	1203.4	1182.6	1172.0	1166.6	1152.8	1145.4	1138.8
10°	1250.9	1223.5	1203.8	1173.0	1154.2	1126.8	1108.1	1108.5	1089.8	1079.1	1071.5
12.5°	1214.4	1184.2	1151.4	1123.7	1097.6	1075.6	1053.0	1043.9	1023.9	1013.7	993.0
15°	1153.8	1118.6	1084.0	1046.4	1020.0	985.8	953.1	913.1	880.9	853.0	845.4
17.5°	1087.5	1044.1	1009.3	965.3	919.9	862.4	824.5	801.3	781.9	767.2	756.2
20°	1042.1	997.9	960.8	894.4	833.3	794.4	766.5	748.7	728.4	712.6	703.9
22.5°	994.4	948.2	897.7	823.6	776.0	744.7	719.8	699.4	685.7	673.3	665.4
25°	926.6	876.1	792.9	741.9	703.4	670.7	653.4	640.8	626.4	609.5	601.9
27.5°	855.1	774.7	714.9	677.0	640.3	619.0	603.4	584.8	571.8	564.3	556.3
30°	801.5	721.2	674.6	633.2	607.2	583.6	565.3	554.8	542.2	529.2	524.0
32.5°	741.9	677.7	633.0	598.5	572.1	552.0	537.6	520.5	511.4	503.4	492.4
35°	667.8	619.3	578.3	550.4	525.4	509.1	492.2	482.1	465.7	459.0	454.7
37.5°	605.0	562.9	532.4	502.9	483.1	465.1	454.8	438.7	431.6	422.3	413.1
40°	569.7	528.3	498.9	474.9	452.7	439.2	426.3	413.3	402.7	398.4	387.3
42.5°	533.5	499.8	470.4	444.0	429.2	415.0	398.6	389.1	378.1	371.1	364.2
45°	483.5	453.7	428.7	407.0	390.7	375.8	365.1	349.3	343.1	329.0	323.3
47.5°	439.7	411.9	388.0	367.5	351.5	341.8	326.3	313.9	303.9	295.3	287.9
50°	408.5	385.4	362.3	344.0	329.6	315.7	299.7	293.5	278.1	273.7	269.5
52.5°	380.0	358.1	336.9	319.0	304.5	291.0	277.0	268.8	258.4	254.1	251.0
55°	340.2	319.0	298.8	282.9	268.4	254.5	245.8	235.7	230.9	227.5	223.8
57.5°	300.1	281.1	265.6	249.5	235.0	223.9	213.9	207.8	202.8	198.4	193.8
60°	274.8	256.5	242.5	227.5	212.6	203.5	195.9	188.6	182.9	176.1	174.2
62.5°	247.8	231.8	219.0	204.4	191.5	183.1	175.8	169.0	162.0	152.2	149.5
65°	210.8	198.2	184.7	172.8	161.2	153.0	142.4	134.7	131.9	130.8	130.4
67.5°	177.3	165.4	153.8	141.6	131.0	123.5	118.1	116.9	114.9	114.3	113.0
70°	155.0	143.8	132.3	120.7	110.7	109.2	107.3	105.4	102.9	102.0	101.0
72.5°	134.9	123.5	111.9	102.6	98.3	96.5	94.6	92.7	91.0	90.1	89.4
75°	103.4	92.8	85.2	81.8	79.4	77.9	75.0	73.6	72.7	71.2	70.7
77.5°	74.5	68.5	64.9	62.9	60.3	58.8	57.1	55.7	54.7	54.4	53.6
80°	56.7	53.9	51.5	48.6	47.6	45.7	45.2	43.8	44.3	42.8	42.8
82.5°	44.1	40.4	38.4	37.0	36.1	34.6	34.0	33.4	33.5	32.4	32.4
85°	22.6	21.7	20.6	19.7	19.7	18.3	18.8	18.3	18.3	17.3	16.9
87.5°	9.8	9.9	9.5	10.0	10.4	10.4	10.7	10.6	10.7	11.0	10.8
90°	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6	26.9	28.2	29.1
92.5°	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1	28.7	29.4	29.9
95°	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5	48.8	50.0	50.6
97.5°	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2	63.2	64.3	64.9
100°	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8	71.8	73.9	75.2
102.5°	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9	75.6	78.2	79.9
105°	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0	78.8	81.6	83.5
107.5°	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7	89.8	87.0	86.1
110°	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5	124.9	99.2	87.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0	228.6	135.1	88.7
115°	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1	355.5	236.9	168.3
117.5°	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6	701.8	673.2	628.5
120°	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3	854.3	857.4	841.7
122.5°	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2	905.1	906.9	904.5
125°	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9	979.7	981.5	982.7
127.5°	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8	1049.4	1052.1	1053.5
130°	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6	1093.4	1096.2	1097.5
132.5°	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1	1135.5	1137.9	1139.0
135°	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8	1196.4	1199.0	1200.0
137.5°	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2	1252.7	1255.3	1256.0
140°	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8	1289.0	1291.4	1291.8
142.5°	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4	1322.6	1324.6	1325.0
145°	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5	1369.3	1371.1	1371.4
147.5°	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6	1409.9	1411.3	1411.4
150°	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9	1435.5	1437.0	1437.1
152.5°	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0	1458.5	1460.1	1460.0
155°	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1	1489.7	1491.2	1490.9
157.5°	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4	1516.1	1517.9	1517.7
160°	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7	1531.2	1532.7	1532.6
162.5°	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9	1545.6	1547.4	1547.1
165°	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8
167.5°	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7	1577.5	1579.3	1579.1
170°	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2	1585.0	1586.8	1586.5
172.5°	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7	1590.4	1592.2	1592.0
175°	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7	1596.5	1598.3	1597.9
177.5°	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3	1596.8	1598.3	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331817-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1329.6	1330.4	1329.3	1330.0	1329.3	1330.4	1329.6	1333.9	1334.6	1335.4	1334.6
5°	1238.9	1233.1	1232.2	1230.7	1232.2	1233.1	1238.9	1241.3	1243.2	1247.1	1253.8
7.5°	1130.6	1129.6	1127.3	1123.9	1127.3	1129.6	1130.6	1138.8	1145.4	1152.8	1166.6
10°	1060.8	1058.5	1058.0	1054.6	1058.0	1058.5	1060.8	1071.5	1079.1	1089.8	1108.5
12.5°	979.3	963.7	962.1	953.8	962.1	963.7	979.3	993.0	1013.7	1023.9	1043.9
15°	833.8	830.9	821.2	815.0	821.2	830.9	833.8	845.4	853.0	880.9	913.1
17.5°	750.6	741.2	738.2	736.9	738.2	741.2	750.6	756.2	767.2	781.9	801.3
20°	697.1	688.5	687.0	686.1	687.0	688.5	697.1	703.9	712.6	728.4	748.7
22.5°	660.2	651.1	647.4	644.5	647.4	651.1	660.2	665.4	673.3	685.7	699.4
25°	597.1	593.7	591.8	590.8	591.8	593.7	597.1	601.9	609.5	626.4	640.8
27.5°	547.7	540.3	538.9	536.4	538.9	540.3	547.7	556.3	564.3	571.8	584.8
30°	519.6	517.2	513.9	511.0	513.9	517.2	519.6	524.0	529.2	542.2	554.8
32.5°	486.5	484.5	481.5	480.1	481.5	484.5	486.5	492.4	503.4	511.4	520.5
35°	449.9	443.1	440.3	435.9	440.3	443.1	449.9	454.7	459.0	465.7	482.1
37.5°	411.0	407.6	403.5	404.9	403.5	407.6	411.0	413.1	422.3	431.6	438.7
40°	381.1	378.6	377.7	377.2	377.7	378.6	381.1	387.3	398.4	402.7	413.3
42.5°	357.2	350.5	348.1	348.0	348.1	350.5	357.2	364.2	371.1	378.1	389.1
45°	320.9	314.6	310.3	310.9	310.3	314.6	320.9	323.3	329.0	343.1	349.3
47.5°	283.8	283.6	280.9	281.7	280.9	283.6	283.8	287.9	295.3	303.9	313.9
50°	266.1	263.2	261.3	261.7	261.3	263.2	266.1	269.5	273.7	278.1	293.5
52.5°	249.1	246.7	245.1	247.1	245.1	246.7	249.1	251.0	254.1	258.4	268.8
55°	221.3	218.4	217.9	217.4	217.9	218.4	221.3	223.8	227.5	230.9	235.7
57.5°	190.2	188.3	185.4	184.2	185.4	188.3	190.2	193.8	198.4	202.8	207.8
60°	167.9	164.1	159.3	158.7	159.3	164.1	167.9	174.2	176.1	182.9	188.6
62.5°	147.5	146.8	145.8	145.7	145.8	146.8	147.5	149.5	152.2	162.0	169.0
65°	129.4	128.9	129.4	129.9	129.4	128.9	129.4	130.4	130.8	131.9	134.7
67.5°	112.8	111.9	111.0	111.4	111.0	111.9	112.8	113.0	114.3	114.9	116.9
70°	100.1	99.6	99.2	99.2	99.2	99.6	100.1	101.0	102.0	102.9	105.4
72.5°	87.8	87.7	87.2	86.8	87.2	87.7	87.8	89.4	90.1	91.0	92.7
75°	70.2	69.3	69.3	69.3	69.3	69.3	70.2	70.7	71.2	72.7	73.6
77.5°	53.5	53.1	52.5	52.1	52.5	53.1	53.5	53.6	54.4	54.7	55.7
80°	42.3	41.8	41.4	41.4	41.4	41.8	42.3	42.8	42.8	44.3	43.8
82.5°	32.3	31.9	31.8	31.4	31.8	31.9	32.3	32.4	32.4	33.5	33.4
85°	17.3	17.8	17.3	18.3	17.3	17.8	17.3	16.9	17.3	18.3	18.3
87.5°	10.9	10.7	11.1	10.8	11.1	10.7	10.9	10.8	11.0	10.7	10.6
90°	29.6	30.1	30.6	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6
92.5°	30.2	30.5	30.8	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1
95°	50.3	50.0	49.9	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5
97.5°	65.2	65.6	65.9	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2
100°	75.7	76.3	76.7	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8
102.5°	80.6	81.3	82.1	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9
105°	84.5	85.6	86.6	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0
107.5°	87.1	88.1	89.2	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7
110°	88.0	89.1	90.1	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	89.5	90.4	91.1	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0
115°	149.9	131.5	113.0	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1
117.5°	567.9	507.3	446.7	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6
120°	807.1	772.5	737.9	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3
122.5°	897.8	891.1	884.4	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2
125°	983.4	984.3	985.1	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9
127.5°	1053.6	1053.8	1053.9	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8
130°	1097.2	1097.0	1096.7	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6
132.5°	1138.8	1138.5	1138.2	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1
135°	1199.5	1199.0	1198.4	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8
137.5°	1255.2	1254.3	1253.5	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2
140°	1290.5	1289.3	1288.0	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8
142.5°	1323.8	1322.5	1321.2	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4
145°	1370.1	1368.9	1367.5	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5
147.5°	1410.3	1409.2	1408.2	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6
150°	1435.9	1434.5	1433.2	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9
152.5°	1458.3	1456.6	1454.9	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0
155°	1488.8	1486.9	1484.8	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1
157.5°	1515.7	1513.7	1511.7	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4
160°	1530.8	1529.0	1527.2	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7
162.5°	1544.9	1542.7	1540.5	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9
165°	1563.0	1561.2	1559.4	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2
167.5°	1576.8	1574.5	1572.2	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7
170°	1584.2	1581.9	1579.6	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2
172.5°	1589.7	1587.4	1585.1	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7
175°	1595.3	1592.8	1590.2	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7
177.5°	1596.2	1594.3	1592.5	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1331.5	1336.9	1345.0	1349.6	1357.4	1362.4	1365.1	1370.1	1372.7	1382.3	1392.4
5°	1257.2	1264.9	1278.4	1290.8	1304.3	1318.2	1328.4	1339.9	1350.5	1368.8	1388.1
7.5°	1172.0	1182.6	1203.4	1223.4	1246.9	1266.6	1284.0	1303.7	1321.4	1347.6	1374.9
10°	1108.1	1126.8	1154.2	1173.0	1203.8	1223.5	1250.9	1272.5	1297.1	1331.7	1362.5
12.5°	1053.0	1075.6	1097.6	1123.7	1151.4	1184.2	1214.4	1242.2	1271.3	1307.1	1343.3
15°	953.1	985.8	1020.0	1046.4	1084.0	1118.6	1153.8	1191.3	1226.9	1269.7	1316.8
17.5°	824.5	862.4	919.9	965.3	1009.3	1044.1	1087.5	1132.9	1174.9	1226.5	1279.0
20°	766.5	794.4	833.3	894.4	960.8	997.9	1042.1	1092.1	1140.3	1196.6	1252.8
22.5°	719.8	744.7	776.0	823.6	897.7	948.2	994.4	1045.2	1101.0	1158.5	1220.9
25°	653.4	670.7	703.4	741.9	792.9	876.1	926.6	977.6	1038.3	1099.9	1171.0
27.5°	603.4	619.0	640.3	677.0	714.9	774.7	855.1	910.7	971.1	1040.4	1114.3
30°	565.3	583.6	607.2	633.2	674.6	721.2	801.5	866.0	925.7	996.9	1075.8
32.5°	537.6	552.0	572.1	598.5	633.0	677.7	741.9	820.2	878.4	953.4	1035.8
35°	492.2	509.1	525.4	550.4	578.3	619.3	667.8	751.5	809.3	883.4	966.1
37.5°	454.8	465.1	483.1	502.9	532.4	562.9	605.0	680.1	742.5	815.3	900.0
40°	426.3	439.2	452.7	474.9	498.9	528.3	569.7	625.5	697.1	768.4	851.1
42.5°	398.6	415.0	429.2	444.0	470.4	499.8	533.5	580.8	654.0	721.4	801.8
45°	365.1	375.8	390.7	407.0	428.7	453.7	483.5	524.9	595.1	653.4	728.9
47.5°	326.3	341.8	351.5	367.5	388.0	411.9	439.7	475.4	532.3	586.9	657.0
50°	299.7	315.7	329.6	344.0	362.3	385.4	408.5	443.1	488.8	546.1	611.5
52.5°	277.0	291.0	304.5	319.0	336.9	358.1	380.0	410.4	449.6	502.2	565.7
55°	245.8	254.5	268.4	282.9	298.8	319.0	340.2	365.6	399.4	443.6	495.1
57.5°	213.9	223.9	235.0	249.5	265.6	281.1	300.1	323.2	349.8	389.8	433.9
60°	195.9	203.5	212.6	227.5	242.5	256.5	274.8	294.0	319.0	353.6	391.2
62.5°	175.8	183.1	191.5	204.4	219.0	231.8	247.8	268.2	289.4	320.9	353.8
65°	142.4	153.0	161.2	172.8	184.7	198.2	210.8	227.1	245.8	270.9	300.2
67.5°	118.1	123.5	131.0	141.6	153.8	165.4	177.3	190.0	206.3	225.6	248.9
70°	107.3	109.2	110.7	120.7	132.3	143.8	155.0	166.9	180.9	196.8	217.0
72.5°	94.6	96.5	98.3	102.6	111.9	123.5	134.9	143.8	157.0	170.2	186.6
75°	75.0	77.9	79.4	81.8	85.2	92.8	103.4	112.1	119.8	129.9	142.9
77.5°	57.1	58.8	60.3	62.9	64.9	68.5	74.5	82.3	89.4	95.4	104.3
80°	45.2	45.7	47.6	48.6	51.5	53.9	56.7	63.1	70.2	72.7	78.9
82.5°	34.0	34.6	36.1	37.0	38.4	40.4	44.1	45.7	51.4	54.6	58.5
85°	18.8	18.3	19.7	19.7	20.6	21.7	22.6	25.0	26.5	30.3	31.3
87.5°	10.7	10.4	10.4	10.0	9.5	9.9	9.8	9.6	9.8	10.5	11.4
90°	24.3	23.1	21.0	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1
92.5°	27.4	26.8	25.7	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3
95°	46.3	45.0	43.2	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9
97.5°	61.2	60.2	56.1	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7
100°	67.8	65.7	61.4	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1
102.5°	70.2	67.6	104.0	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9
105°	73.1	70.3	140.3	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5
107.5°	95.6	98.5	182.4	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1
110°	176.2	201.8	275.8	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	415.5	508.9	527.3	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8
115°	592.8	711.4	705.0	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0
117.5°	759.2	788.0	783.5	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2
120°	848.2	845.1	840.6	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1
122.5°	901.4	899.6	894.6	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8
125°	976.1	974.3	969.4	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4
127.5°	1044.2	1041.6	1037.9	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6
130°	1087.8	1085.0	1082.1	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9
132.5°	1130.7	1128.3	1125.5	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9
135°	1191.3	1188.7	1186.4	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9
137.5°	1247.7	1245.2	1242.6	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5
140°	1284.4	1282.1	1279.3	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2
142.5°	1318.3	1316.3	1313.0	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5
145°	1365.7	1364.0	1359.6	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5
147.5°	1407.3	1405.9	1401.7	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9
150°	1432.4	1430.9	1426.7	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5
152.5°	1455.5	1453.9	1450.0	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4
155°	1486.6	1485.1	1482.0	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6
157.5°	1512.6	1510.9	1508.7	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0
160°	1528.0	1526.5	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5
162.5°	1542.1	1540.4	1539.1	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3
165°	1559.4	1557.6	1556.9	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1
167.5°	1574.0	1572.2	1571.5	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9
170°	1581.4	1579.6	1579.0	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2
172.5°	1586.9	1585.1	1584.6	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7
175°	1592.9	1591.1	1590.6	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9
177.5°	1593.9	1592.5	1592.2	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331817-830

CATALOG NUMBER: S122RDIW-S675D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1392.8	1393.9	1401.7	1405.0	1412.0	1414.7	1417.8	1417.0	1417.0	1418.5	1429.4
5°	1395.7	1405.3	1419.8	1433.7	1447.2	1458.8	1466.5	1474.1	1477.1	1491.0	1503.5
7.5°	1390.7	1408.4	1432.3	1453.6	1479.0	1499.0	1515.5	1530.5	1540.7	1560.9	1581.8
10°	1384.2	1409.2	1436.2	1463.6	1498.7	1525.1	1552.1	1572.8	1579.5	1609.9	1627.2
12.5°	1371.1	1404.6	1438.9	1474.3	1508.7	1545.2	1574.8	1595.5	1619.2	1646.4	1678.4
15°	1351.5	1390.0	1434.7	1480.5	1529.5	1573.8	1605.5	1641.6	1667.5	1697.4	1725.3
17.5°	1323.2	1372.8	1429.7	1482.6	1539.4	1587.0	1630.6	1665.3	1683.6	1700.5	1704.7
20°	1301.0	1354.3	1421.3	1483.8	1540.6	1595.4	1638.7	1667.5	1672.4	1672.8	1647.4
22.5°	1276.7	1337.0	1407.0	1471.1	1539.0	1600.1	1633.7	1646.1	1626.9	1594.3	1545.0
25°	1232.2	1301.9	1383.3	1456.3	1530.5	1588.2	1599.8	1578.1	1511.2	1441.0	1352.0
27.5°	1183.8	1262.3	1349.4	1430.8	1509.7	1545.5	1520.5	1442.5	1322.0	1217.3	1090.4
30°	1148.5	1236.5	1322.1	1413.1	1486.2	1501.6	1444.4	1329.4	1188.8	1031.0	904.6
32.5°	1108.1	1200.3	1294.4	1388.5	1449.6	1434.6	1340.0	1198.4	1033.8	878.6	759.0
35°	1050.3	1145.6	1247.1	1341.3	1380.4	1315.4	1173.9	989.7	821.2	676.5	594.2
37.5°	983.6	1087.3	1192.9	1279.5	1276.7	1168.5	975.8	785.6	644.0	558.4	499.8
40°	936.2	1041.1	1155.2	1228.3	1197.0	1056.0	847.3	667.8	564.4	496.1	453.2
42.5°	890.9	996.1	1109.4	1167.5	1113.1	939.8	731.8	591.2	505.9	452.5	417.8
45°	813.6	924.7	1029.6	1061.9	964.7	773.6	591.8	489.7	433.0	393.6	369.5
47.5°	738.0	847.3	943.1	943.7	812.2	627.4	499.2	423.9	375.4	344.9	327.3
50°	691.8	795.8	876.1	863.7	714.4	558.1	446.5	381.5	341.1	317.5	299.3
52.5°	639.9	740.7	810.3	774.7	631.7	491.2	399.2	344.6	311.1	290.6	274.3
55°	564.4	653.8	702.9	649.0	515.3	408.5	337.2	294.5	269.5	252.1	238.2
57.5°	490.1	564.0	594.8	532.2	424.4	338.7	285.3	253.2	228.4	215.9	208.7
60°	443.6	506.6	528.3	459.0	369.0	296.3	252.6	222.7	204.4	196.3	189.1
62.5°	397.8	449.3	458.3	394.7	321.7	259.4	221.8	196.6	184.5	176.6	169.8
65°	330.1	367.1	362.8	311.8	254.5	205.9	178.5	163.1	153.9	142.9	130.8
67.5°	271.7	294.4	280.7	242.5	194.3	160.0	142.1	130.4	119.1	108.7	105.8
70°	234.8	247.8	233.4	198.2	159.3	134.2	119.8	105.8	99.2	96.7	92.4
72.5°	199.3	203.9	188.3	158.2	129.6	111.1	97.1	89.3	85.7	83.6	80.9
75°	149.7	146.3	132.8	109.2	90.0	77.5	73.1	70.2	67.9	65.9	64.5
77.5°	105.1	100.2	88.1	72.8	62.7	56.6	54.1	52.5	51.4	50.4	49.0
80°	78.9	75.5	63.5	51.9	47.6	44.8	43.3	41.4	41.4	40.4	38.9
82.5°	57.8	54.0	43.5	38.1	35.7	33.9	32.9	31.8	31.4	31.6	30.5
85°	30.3	24.5	21.7	20.6	19.2	18.3	18.8	17.8	17.8	17.8	17.3
87.5°	10.0	8.7	8.9	9.0	9.9	10.3	10.4	10.7	11.5	11.4	12.1
90°	4.0	6.8	9.6	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6
92.5°	23.0	22.8	22.5	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1
95°	66.4	58.1	49.6	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5
97.5°	124.9	101.0	77.3	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2
100°	169.0	133.8	98.8	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8
102.5°	257.5	250.1	242.7	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9
105°	358.2	365.9	373.5	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0
107.5°	454.2	460.4	466.7	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7
110°	516.1	521.5	526.9	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.6	579.3	584.1	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0
115°	667.3	671.7	676.0	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1
117.5°	751.1	755.9	760.8	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6
120°	811.0	814.7	818.6	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3
122.5°	862.8	866.9	870.9	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2
125°	940.7	944.1	947.3	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9
127.5°	1012.3	1016.0	1019.7	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8
130°	1057.9	1062.1	1066.1	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6
132.5°	1103.4	1106.9	1110.4	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1
135°	1163.9	1168.1	1172.1	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8
137.5°	1223.4	1226.2	1229.2	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2
140°	1262.3	1264.3	1266.3	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8
142.5°	1295.2	1297.1	1298.9	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4
145°	1345.3	1345.0	1344.7	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5
147.5°	1390.0	1389.0	1388.0	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6
150°	1418.7	1416.9	1415.0	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9
152.5°	1443.4	1441.3	1439.4	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0
155°	1479.2	1477.0	1474.6	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1
157.5°	1508.0	1506.0	1504.1	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4
160°	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7
162.5°	1539.7	1538.2	1536.7	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9
165°	1559.6	1558.0	1556.5	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2
167.5°	1574.3	1572.8	1571.3	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7
170°	1582.6	1581.1	1579.6	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2
172.5°	1588.2	1586.7	1585.1	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7
175°	1595.1	1593.3	1591.5	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7
177.5°	1596.6	1595.2	1593.7	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1433.1	1438.1	1440.5	1440.5	1443.2	1442.0	1440.9
5°	1515.5	1524.7	1526.6	1535.3	1541.5	1539.5	1540.6
7.5°	1597.4	1612.1	1626.6	1633.3	1634.4	1638.2	1639.6
10°	1647.8	1659.9	1682.5	1679.1	1695.9	1705.6	1689.7
12.5°	1696.4	1712.6	1728.2	1732.6	1742.2	1745.2	1739.0
15°	1740.2	1748.9	1749.8	1747.5	1750.3	1747.9	1738.8
17.5°	1699.2	1685.2	1656.7	1643.2	1632.6	1616.7	1610.4
20°	1631.4	1590.1	1542.0	1522.8	1500.2	1455.9	1466.5
22.5°	1485.3	1438.0	1390.0	1333.8	1306.9	1265.0	1262.4
25°	1257.6	1176.4	1086.8	1024.4	987.8	945.9	927.7
27.5°	977.8	875.4	802.1	765.0	731.2	698.0	696.6
30°	793.8	716.9	660.1	628.4	607.7	593.7	596.6
32.5°	669.1	616.4	578.2	551.8	536.5	525.9	525.8
35°	547.1	511.0	486.4	475.3	464.3	456.6	457.0
37.5°	468.2	446.5	432.8	420.6	413.7	409.9	407.8
40°	427.7	409.9	399.4	392.1	386.3	381.1	380.1
42.5°	395.8	381.1	370.4	364.8	359.4	355.6	354.7
45°	351.2	339.2	329.6	323.3	320.9	317.5	317.5
47.5°	312.5	300.6	293.1	289.2	285.0	282.8	282.7
50°	286.3	277.1	270.4	268.0	264.6	263.2	262.7
52.5°	262.8	256.0	251.2	249.5	248.1	246.2	246.6
55°	230.9	227.1	225.2	223.8	221.3	218.4	220.4
57.5°	204.1	200.9	195.7	191.1	188.9	186.9	187.7
60°	185.2	178.5	171.7	166.5	165.0	160.7	160.7
62.5°	161.4	151.9	143.6	140.7	139.2	137.2	136.9
65°	124.1	120.3	118.4	116.4	115.5	115.5	114.5
67.5°	102.8	101.3	99.2	98.7	97.7	97.5	97.2
70°	91.0	89.0	88.0	87.6	86.6	87.1	85.7
72.5°	79.4	77.9	77.7	76.4	75.8	75.9	74.8
75°	62.6	62.6	62.0	61.5	60.6	60.1	60.6
77.5°	48.1	48.2	47.3	47.2	47.1	47.2	46.8
80°	38.5	38.9	38.5	38.0	37.5	38.0	37.5
82.5°	30.4	29.7	29.6	29.5	29.4	29.1	29.0
85°	17.3	17.8	17.3	16.9	16.9	16.9	17.3
87.5°	12.0	12.2	12.3	12.4	12.5	12.6	12.3
90°	26.9	28.2	29.1	29.6	30.1	30.6	31.1
92.5°	28.7	29.4	29.9	30.2	30.5	30.8	31.1
95°	48.8	50.0	50.6	50.3	50.0	49.9	49.6
97.5°	63.2	64.3	64.9	65.2	65.6	65.9	66.2
100°	71.8	73.9	75.2	75.7	76.3	76.7	77.3
102.5°	75.6	78.2	79.9	80.6	81.3	82.1	82.8
105°	78.8	81.6	83.5	84.5	85.6	86.6	87.7
107.5°	89.8	87.0	86.1	87.1	88.1	89.2	90.2
110°	124.9	99.2	87.0	88.0	89.1	90.1	91.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	228.6	135.1	88.7	89.5	90.4	91.1	92.0
115°	355.5	236.9	168.3	149.9	131.5	113.0	94.5
117.5°	701.8	673.2	628.5	567.9	507.3	446.7	386.0
120°	854.3	857.4	841.7	807.1	772.5	737.9	703.3
122.5°	905.1	906.9	904.5	897.8	891.1	884.4	877.6
125°	979.7	981.5	982.7	983.4	984.3	985.1	985.8
127.5°	1049.4	1052.1	1053.5	1053.6	1053.8	1053.9	1054.0
130°	1093.4	1096.2	1097.5	1097.2	1097.0	1096.7	1096.5
132.5°	1135.5	1137.9	1139.0	1138.8	1138.5	1138.2	1138.0
135°	1196.4	1199.0	1200.0	1199.5	1199.0	1198.4	1198.0
137.5°	1252.7	1255.3	1256.0	1255.2	1254.3	1253.5	1252.5
140°	1289.0	1291.4	1291.8	1290.5	1289.3	1288.0	1286.8
142.5°	1322.6	1324.6	1325.0	1323.8	1322.5	1321.2	1319.9
145°	1369.3	1371.1	1371.4	1370.1	1368.9	1367.5	1366.3
147.5°	1409.9	1411.3	1411.4	1410.3	1409.2	1408.2	1407.1
150°	1435.5	1437.0	1437.1	1435.9	1434.5	1433.2	1432.0
152.5°	1458.5	1460.1	1460.0	1458.3	1456.6	1454.9	1453.2
155°	1489.7	1491.2	1490.9	1488.8	1486.9	1484.8	1482.7
157.5°	1516.1	1517.9	1517.7	1515.7	1513.7	1511.7	1509.7
160°	1531.2	1532.7	1532.6	1530.8	1529.0	1527.2	1525.4
162.5°	1545.6	1547.4	1547.1	1544.9	1542.7	1540.5	1538.3
165°	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6
167.5°	1577.5	1579.3	1579.1	1576.8	1574.5	1572.2	1569.9
170°	1585.0	1586.8	1586.5	1584.2	1581.9	1579.6	1577.3
172.5°	1590.4	1592.2	1592.0	1589.7	1587.4	1585.1	1582.8
175°	1596.5	1598.3	1597.9	1595.3	1592.8	1590.2	1587.6
177.5°	1596.8	1598.3	1598.0	1596.2	1594.3	1592.5	1590.6
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4

(END OF REPORT)