

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: P331842-935

Luminaire Tested: **S122RDIW-S865D1440U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331842-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D1440U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7148.5 lumens
Efficiency: N/A
Efficacy: 93.3 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

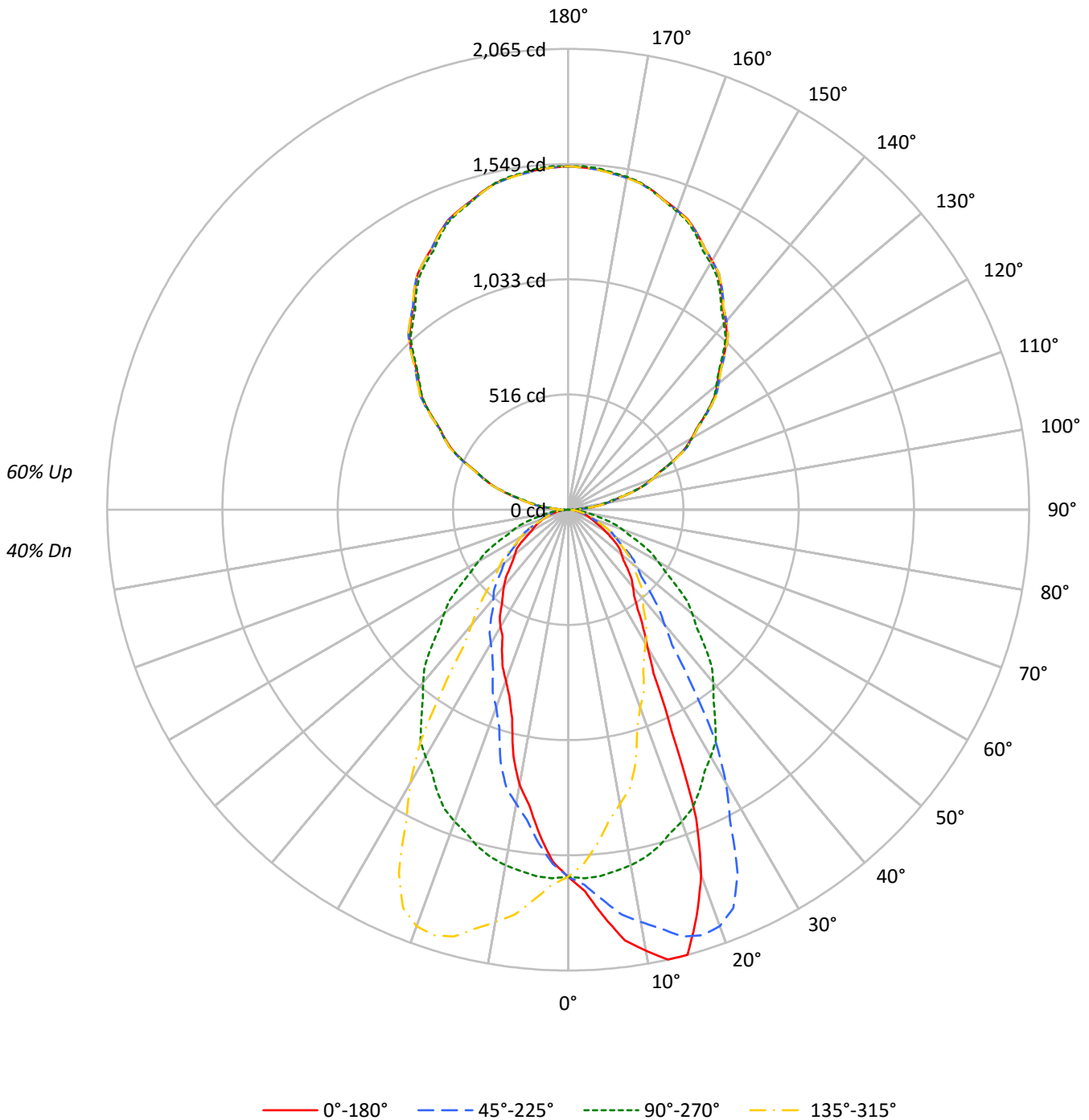
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	81	72	65	60	73	66	60	55	55	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	24	22	19
7	59	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	35	30	50	40	33	29	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	26	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.2
10°-20°	434.3	6.1
20°-30°	559.6	7.8
30°-40°	531.8	7.4
40°-50°	455.6	6.4
50°-60°	346.9	4.9
60°-70°	219.3	3.1
70°-80°	109.5	1.5
80°-90°	34.6	0.5
90°-100°	97.5	1.4
100°-110°	302.7	4.2
110°-120°	517.4	7.2
120°-130°	680.4	9.5
130°-140°	763.7	10.7
140°-150°	748.8	10.5
150°-160°	628.1	8.8
160°-170°	416.6	5.8
170°-180°	145.6	2.0
0°-30°	1149.8	16.1
0°-40°	1681.6	23.5
0°-60°	2484.1	34.8
0°-90°	2847.6	39.8
90°-120°	917.6	12.8
90°-150°	3110.6	43.5
90°-180°	4301.0	60.2
0°-180°	7148.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	23
90°	44	1	44	1	44	20
95°	80	68	80	68	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	513
125°	758	755	758	755	758	676
135°	989	977	989	977	989	761
145°	1199	1186	1199	1186	1199	749
155°	1367	1356	1367	1356	1367	629
165°	1477	1476	1477	1476	1477	417
175°	1530	1536	1530	1536	1530	145
180°	1538	1538	1538	1538	1538	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	16.1	16.5	16.4	16.4	16.4	16.4	16.5	17.0	16.7	17.3	15.6
90°	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3	44.9	45.5	39.1
92.5°	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5	41.4	41.2	39.8
95°	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1	83.1	83.1	82.5
97.5°	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7	139.7	139.7	138.5
100°	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1	179.1	179.1	178.2
102.5°	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1	222.0	221.7	220.6
105°	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7	286.1	285.6	285.0
107.5°	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4	356.1	355.9	355.9
110°	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1	451.8	452.5	452.7
115°	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8	524.1	524.4	525.0
117.5°	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2	594.9	595.6	597.1
120°	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2	641.2	641.2	643.5
122.5°	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7	690.3	691.0	692.7
125°	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5	762.3	763.2	764.1
127.5°	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2	832.2	833.4	834.4
130°	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9	879.5	880.0	880.6
132.5°	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3	926.5	927.8	927.7
135°	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7	994.0	994.3	993.7
137.5°	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2	1059.5	1059.7	1058.9
140°	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3	1103.3	1103.3	1101.9
142.5°	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2	1143.0	1142.8	1141.8
145°	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9	1203.5	1203.2	1201.5
147.5°	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0	1256.4	1255.7	1254.6
150°	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9	1287.8
152.5°	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2	1320.8
155°	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1	1365.6	1364.2	1363.3
157.5°	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5	1404.5	1402.7	1402.1
160°	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9	1428.2	1426.5	1426.2
162.5°	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2	1449.2	1447.3	1447.0
165°	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6	1476.5	1474.5	1474.5
167.5°	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2	1499.2	1497.1	1497.2
170°	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6	1511.6	1509.6	1509.8
172.5°	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9	1521.0	1518.9	1519.2
175°	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1	1531.1	1529.0	1529.7
177.5°	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0	1535.5
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	14.3	13.5	12.2	10.8	10.6	10.3	11.9	13.5	12.4	11.7	11.5
90°	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3	4.7	8.2	11.7
92.5°	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1	25.7	28.2	30.7
95°	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5	70.3	73.3	76.1
97.5°	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3	125.9	128.4	131.0
100°	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9	167.1	169.4	171.8
102.5°	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4	210.3	212.2	214.0
105°	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1	279.9	280.8	281.6
107.5°	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2	351.5	352.8	354.0
110°	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9	397.6	399.3	401.1



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7	447.5	449.2	450.9
115°	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2	520.9	522.6	524.4
117.5°	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5	594.7	597.0	599.3
120°	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	643.5	645.8	648.2
122.5°	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9	688.6	691.4	694.1
125°	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4	758.0	760.6	763.2
127.5°	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2	826.5	829.7	833.1
130°	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7	869.5	873.3	877.0
132.5°	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5	916.6	919.6	922.7
135°	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4	980.6	983.8	986.9
137.5°	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7	1047.2	1049.8	1052.4
140°	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1	1087.7	1090.4	1093.0
142.5°	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7	1129.3	1131.9	1134.5
145°	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4	1188.4	1190.4	1192.4
147.5°	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6	1242.0	1244.4	1246.9
150°	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9	1277.6	1279.4	1281.2
152.5°	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1	1309.8	1311.6	1313.3
155°	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4	1357.3	1358.1	1359.0
157.5°	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7	1398.3	1398.9	1399.5
160°	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6	1423.2	1423.7	1424.4
162.5°	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4	1445.6	1445.7	1445.8
165°	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8	1475.6	1475.2	1475.0
167.5°	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2	1500.4	1499.5	1498.7
170°	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8	1513.9	1513.0	1512.2
172.5°	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1	1523.3	1522.4	1521.6
175°	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5	1534.6	1533.8	1532.9
177.5°	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2	1539.6	1538.9	1538.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	11.7	12.2	12.6	13.9	15.2	15.9	15.8	15.2	15.2	15.0	14.6
90°	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3	43.7	43.1	43.0
92.5°	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5	41.6	41.8	41.8
95°	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1	83.1	83.1	82.7
97.5°	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7	139.7	139.7	139.7
100°	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1	179.1	179.1	179.0
102.5°	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1	222.4	222.7	222.6
105°	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7	287.3	287.8	288.2
107.5°	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4	356.6	356.8	356.3
110°	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.2



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1	450.4	449.7	449.0
115°	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8	523.5	523.2	522.6
117.5°	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2	593.5	592.8	591.9
120°	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2	641.2	641.2	640.8
122.5°	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7	689.0	688.3	687.6
125°	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5	760.6	759.7	759.2
127.5°	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2	830.2	829.1	828.2
130°	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9	878.3	877.7	876.8
132.5°	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3	924.0	922.7	921.6
135°	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7	993.4	993.2	992.6
137.5°	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2	1059.0	1058.8	1058.1
140°	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3	1103.3	1103.3	1102.8
142.5°	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2	1143.5	1143.7	1143.2
145°	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9	1204.1	1204.4	1203.9
147.5°	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0	1257.6	1258.3	1258.0
150°	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4
152.5°	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5
155°	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1	1368.6	1369.9	1370.3
157.5°	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5	1408.5	1410.5	1410.7
160°	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9	1431.7	1433.4	1433.7
162.5°	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2	1453.2	1455.1	1455.4
165°	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6	1480.6	1482.6	1482.9
167.5°	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2	1503.2	1505.2	1505.5
170°	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6	1515.6	1517.7	1517.8
172.5°	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9	1525.0	1527.0	1527.2
175°	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1	1535.1	1537.1	1537.3
177.5°	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	14.6	14.2	14.7	14.3	14.7	14.2	14.6	14.6	15.0	15.2	15.2
90°	43.3	43.6	43.8	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5
95°	82.2	81.6	81.0	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1
97.5°	139.6	139.5	139.5	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7
100°	178.7	178.4	178.1	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1
102.5°	222.3	222.1	221.7	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1
105°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7
107.5°	355.0	353.6	352.3	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4
110°	402.3	401.5	400.6	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.4	447.8	447.1	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1
115°	521.8	520.9	520.0	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8
117.5°	591.1	590.2	589.4	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2
120°	639.9	639.0	638.2	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2
122.5°	687.0	686.4	685.7	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7
125°	758.9	758.6	758.4	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5
127.5°	827.2	826.3	825.4	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2
130°	875.7	874.6	873.4	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9
132.5°	920.8	919.8	918.9	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3
135°	991.7	990.8	990.0	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7
137.5°	1057.0	1055.8	1054.6	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2
140°	1101.6	1100.4	1099.2	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3
142.5°	1142.1	1140.9	1139.8	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2
145°	1202.8	1201.7	1200.5	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9
147.5°	1256.9	1255.8	1254.7	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0
150°	1291.5	1290.6	1289.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6
152.5°	1325.4	1324.3	1323.3	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3
155°	1369.4	1368.6	1367.7	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1
157.5°	1409.4	1408.0	1406.6	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5
160°	1432.5	1431.4	1430.3	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9
162.5°	1454.1	1452.7	1451.3	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2
165°	1481.4	1480.1	1478.6	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6
167.5°	1504.0	1502.4	1501.0	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2
170°	1516.0	1514.3	1512.6	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6
172.5°	1525.4	1523.7	1522.0	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9
175°	1535.5	1533.8	1532.1	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1
177.5°	1539.2	1537.8	1536.4	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	15.8	15.9	15.2	13.9	12.6	12.2	11.7	11.5	11.7	12.4	13.5
90°	44.9	45.5	39.1	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3
92.5°	41.4	41.2	39.8	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1
95°	83.1	83.1	82.5	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5
97.5°	139.7	139.7	138.5	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3
100°	179.1	179.1	178.2	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9
102.5°	222.0	221.7	220.6	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4
105°	286.1	285.6	285.0	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1
107.5°	356.1	355.9	355.9	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2
110°	403.7	403.7	403.7	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.8	452.5	452.7	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7
115°	524.1	524.4	525.0	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2
117.5°	594.9	595.6	597.1	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5
120°	641.2	641.2	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2
122.5°	690.3	691.0	692.7	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9
125°	762.3	763.2	764.1	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4
127.5°	832.2	833.4	834.4	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2
130°	879.5	880.0	880.6	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7
132.5°	926.5	927.8	927.7	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5
135°	994.0	994.3	993.7	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4
137.5°	1059.5	1059.7	1058.9	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7
140°	1103.3	1103.3	1101.9	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1
142.5°	1143.0	1142.8	1141.8	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7
145°	1203.5	1203.2	1201.5	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4
147.5°	1256.4	1255.7	1254.6	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6
150°	1289.8	1288.9	1287.8	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9
152.5°	1323.3	1322.2	1320.8	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1
155°	1365.6	1364.2	1363.3	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4
157.5°	1404.5	1402.7	1402.1	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7
160°	1428.2	1426.5	1426.2	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6
162.5°	1449.2	1447.3	1447.0	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4
165°	1476.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8
167.5°	1499.2	1497.1	1497.2	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2
170°	1511.6	1509.6	1509.8	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8
172.5°	1521.0	1518.9	1519.2	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1
175°	1531.1	1529.0	1529.7	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5
177.5°	1536.4	1535.0	1535.5	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331842-935

CATALOG NUMBER: S122RDIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.9	10.3	10.6	10.8	12.2	13.5	14.3	15.6	17.3	16.7	17.0
90°	4.7	8.2	11.7	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3
92.5°	25.7	28.2	30.7	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5
95°	70.3	73.3	76.1	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1
97.5°	125.9	128.4	131.0	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7
100°	167.1	169.4	171.8	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1
102.5°	210.3	212.2	214.0	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1
105°	279.9	280.8	281.6	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7
107.5°	351.5	352.8	354.0	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4
110°	397.6	399.3	401.1	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.5	449.2	450.9	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1
115°	520.9	522.6	524.4	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8
117.5°	594.7	597.0	599.3	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2
120°	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2
122.5°	688.6	691.4	694.1	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7
125°	758.0	760.6	763.2	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5
127.5°	826.5	829.7	833.1	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2
130°	869.5	873.3	877.0	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9
132.5°	916.6	919.6	922.7	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3
135°	980.6	983.8	986.9	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7
137.5°	1047.2	1049.8	1052.4	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2
140°	1087.7	1090.4	1093.0	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3
142.5°	1129.3	1131.9	1134.5	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2
145°	1188.4	1190.4	1192.4	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9
147.5°	1242.0	1244.4	1246.9	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0
150°	1277.6	1279.4	1281.2	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6
152.5°	1309.8	1311.6	1313.3	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3
155°	1357.3	1358.1	1359.0	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1
157.5°	1398.3	1398.9	1399.5	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5
160°	1423.2	1423.7	1424.4	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9
162.5°	1445.6	1445.7	1445.8	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2
165°	1475.6	1475.2	1475.0	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6
167.5°	1500.4	1499.5	1498.7	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2
170°	1513.9	1513.0	1512.2	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6
172.5°	1523.3	1522.4	1521.6	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9
175°	1534.6	1533.8	1532.9	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1
177.5°	1539.6	1538.9	1538.2	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	16.5	16.4	16.4	16.4	16.4	16.5	16.1
90°	43.7	43.1	43.0	43.3	43.6	43.8	44.2
92.5°	41.6	41.8	41.8	41.8	41.9	42.0	42.0
95°	83.1	83.1	82.7	82.2	81.6	81.0	80.5
97.5°	139.7	139.7	139.7	139.6	139.5	139.5	139.4
100°	179.1	179.1	179.0	178.7	178.4	178.1	177.8
102.5°	222.4	222.7	222.6	222.3	222.1	221.7	221.4
105°	287.3	287.8	288.2	288.2	288.2	288.2	288.2
107.5°	356.6	356.8	356.3	355.0	353.6	352.3	350.9
110°	403.7	403.7	403.2	402.3	401.5	400.6	399.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.0	448.4	447.8	447.1	446.5
115°	523.5	523.2	522.6	521.8	520.9	520.0	519.2
117.5°	593.5	592.8	591.9	591.1	590.2	589.4	588.5
120°	641.2	641.2	640.8	639.9	639.0	638.2	637.3
122.5°	689.0	688.3	687.6	687.0	686.4	685.7	685.1
125°	760.6	759.7	759.2	758.9	758.6	758.4	758.0
127.5°	830.2	829.1	828.2	827.2	826.3	825.4	824.5
130°	878.3	877.7	876.8	875.7	874.6	873.4	872.3
132.5°	924.0	922.7	921.6	920.8	919.8	918.9	917.9
135°	993.4	993.2	992.6	991.7	990.8	990.0	989.1
137.5°	1059.0	1058.8	1058.1	1057.0	1055.8	1054.6	1053.4
140°	1103.3	1103.3	1102.8	1101.6	1100.4	1099.2	1098.1
142.5°	1143.5	1143.7	1143.2	1142.1	1140.9	1139.8	1138.6
145°	1204.1	1204.4	1203.9	1202.8	1201.7	1200.5	1199.4
147.5°	1257.6	1258.3	1258.0	1256.9	1255.8	1254.7	1253.6
150°	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9
152.5°	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2
155°	1368.6	1369.9	1370.3	1369.4	1368.6	1367.7	1366.8
157.5°	1408.5	1410.5	1410.7	1409.4	1408.0	1406.6	1405.2
160°	1431.7	1433.4	1433.7	1432.5	1431.4	1430.3	1429.1
162.5°	1453.2	1455.1	1455.4	1454.1	1452.7	1451.3	1449.8
165°	1480.6	1482.6	1482.9	1481.4	1480.1	1478.6	1477.1
167.5°	1503.2	1505.2	1505.5	1504.0	1502.4	1501.0	1499.4
170°	1515.6	1517.7	1517.8	1516.0	1514.3	1512.6	1510.9
172.5°	1525.0	1527.0	1527.2	1525.4	1523.7	1522.0	1520.3
175°	1535.1	1537.1	1537.3	1535.5	1533.8	1532.1	1530.3
177.5°	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2

(END OF REPORT)