

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: P331837-935

Luminaire Tested: **S122RDIW-S865D1240U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331837-935
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-S865D1240U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 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: 7110.6 lumens
Efficiency: N/A
Efficacy: 101.9 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: General Diffuse

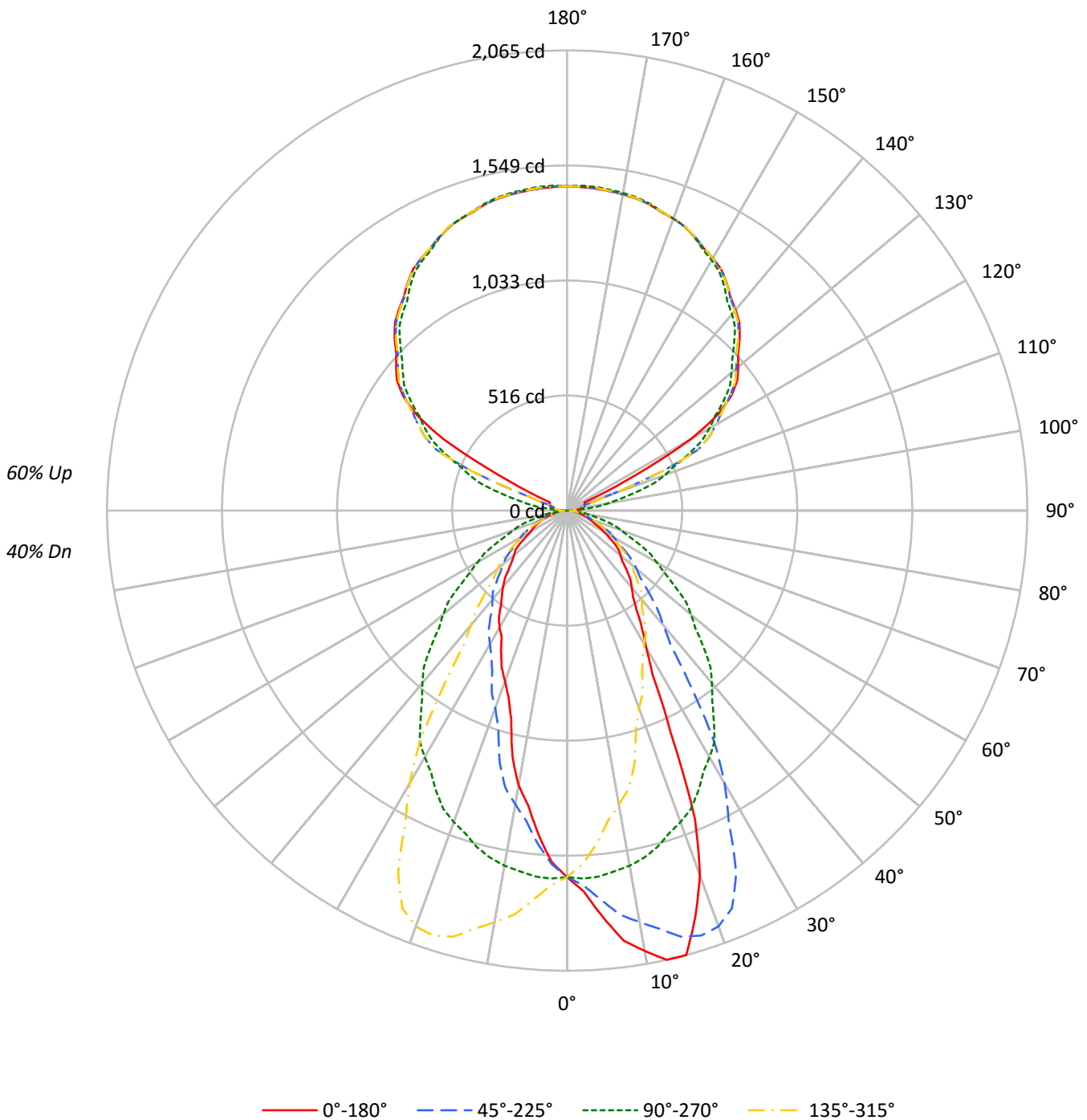
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	85	87	84	81	78	69	67	65	55	54	53	42	42	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	33	31	26
4	74	64	57	51	67	59	52	48	49	44	41	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	33	30	28	26	24	21
6	63	52	44	39	58	48	41	36	40	35	31	33	29	26	26	24	22	19
7	59	47	39	34	53	43	37	32	37	31	28	30	26	24	24	22	20	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	48	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	7.9
30°-40°	531.8	7.5
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°	32.1	0.5
90°-100°	48.6	0.7
100°-110°	178.1	2.5
110°-120°	476.0	6.7
120°-130°	785.7	11.0
130°-140°	835.5	11.8
140°-150°	776.6	10.9
150°-160°	624.4	8.8
160°-170°	402.3	5.7
170°-180°	138.5	1.9
0°-30°	1149.8	16.2
0°-40°	1681.6	23.6
0°-60°	2484.1	34.9
0°-90°	2845.0	40.0
90°-120°	702.6	9.9
90°-150°	3100.4	43.6
90°-180°	4266.0	60.0
0°-180°	7110.6	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°	28	1	28	1	28	13
95°	45	68	45	68	45	42
105°	80	320	80	320	80	83
115°	86	606	86	606	86	216
125°	900	856	900	856	900	779
135°	1094	1060	1094	1060	1094	843
145°	1248	1229	1248	1229	1248	781
155°	1354	1353	1354	1353	1354	625
165°	1423	1426	1423	1426	1423	402
175°	1450	1459	1450	1459	1450	138
180°	1456	1456	1456	1456	1456	



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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°	13.0	13.3	13.3	13.2	13.1	12.9	12.7	12.9	12.2	12.4	11.6
90°	28.4	28.0	27.5	27.0	26.6	25.7	24.5	23.4	22.2	21.1	19.2
92.5°	28.4	28.2	27.9	27.6	27.3	26.9	26.3	25.7	25.1	24.5	23.5
95°	45.3	45.5	45.7	46.0	46.2	45.7	44.6	43.4	42.3	41.1	39.4
97.5°	60.4	60.2	59.9	59.6	59.3	58.7	57.8	56.8	55.9	55.0	51.2
100°	70.6	70.1	69.7	69.1	68.7	67.5	65.6	63.8	61.9	60.0	56.1
102.5°	75.6	75.0	74.3	73.6	73.0	71.5	69.1	66.6	64.1	61.7	59.0
105°	80.1	79.1	78.2	77.2	76.3	74.6	72.0	69.4	66.8	64.2	61.1
107.5°	82.4	81.5	80.5	79.6	78.6	79.5	82.1	84.7	87.3	90.0	93.0
110°	83.2	82.3	81.4	80.4	79.5	90.7	114.1	137.5	160.9	184.3	251.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	84.0	83.3	82.6	81.8	81.0	123.4	208.8	294.1	379.5	464.9	481.6
115°	86.4	103.2	120.1	136.9	153.8	216.4	324.8	433.1	541.5	649.9	644.0
117.5°	352.6	408.0	463.4	518.8	574.1	614.9	641.1	667.4	693.5	719.8	715.7
120°	642.5	674.1	705.7	737.3	768.9	783.3	780.4	777.7	774.8	772.0	767.8
122.5°	801.7	807.9	814.0	820.1	826.2	828.5	826.8	825.1	823.4	821.7	817.2
125°	900.5	899.8	899.1	898.4	897.7	896.6	894.9	893.3	891.7	890.0	885.5
127.5°	962.9	962.7	962.6	962.4	962.3	961.0	958.6	956.2	953.9	951.5	948.1
130°	1001.6	1001.9	1002.1	1002.3	1002.5	1001.3	998.8	996.3	993.7	991.1	988.5
132.5°	1039.6	1039.7	1040.0	1040.3	1040.4	1039.5	1037.2	1035.1	1032.9	1030.7	1028.1
135°	1094.3	1094.8	1095.3	1095.7	1096.1	1095.3	1092.9	1090.5	1088.2	1085.9	1083.7
137.5°	1144.2	1145.0	1145.8	1146.6	1147.4	1146.7	1144.4	1142.0	1139.8	1137.5	1135.1
140°	1175.4	1176.6	1177.8	1178.9	1180.1	1179.7	1177.5	1175.4	1173.3	1171.2	1168.6
142.5°	1205.7	1206.9	1208.1	1209.3	1210.4	1210.0	1208.2	1206.2	1204.3	1202.4	1199.4
145°	1248.1	1249.2	1250.4	1251.5	1252.8	1252.5	1250.9	1249.2	1247.6	1246.0	1242.0
147.5°	1285.4	1286.3	1287.3	1288.3	1289.3	1289.2	1288.0	1286.8	1285.6	1284.3	1280.4
150°	1308.1	1309.2	1310.4	1311.6	1312.8	1312.7	1311.3	1309.8	1308.5	1307.1	1303.3
152.5°	1327.5	1329.0	1330.6	1332.1	1333.7	1333.8	1332.3	1330.9	1329.6	1328.1	1324.6
155°	1354.4	1356.3	1358.2	1360.0	1361.9	1362.2	1360.8	1359.3	1358.0	1356.6	1353.8
157.5°	1379.1	1381.0	1382.8	1384.6	1386.4	1386.6	1384.9	1383.4	1381.7	1380.2	1378.2
160°	1393.4	1395.1	1396.7	1398.4	1400.0	1400.1	1398.7	1397.3	1395.9	1394.5	1393.1
162.5°	1405.2	1407.2	1409.2	1411.3	1413.2	1413.5	1411.9	1410.3	1408.7	1407.1	1405.9
165°	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4	1427.8	1426.2	1424.5	1422.9	1422.2
167.5°	1434.1	1436.1	1438.3	1440.4	1442.5	1442.7	1441.1	1439.4	1437.8	1436.1	1435.5
170°	1440.8	1442.9	1445.0	1447.2	1449.2	1449.5	1447.9	1446.2	1444.6	1442.9	1442.4
172.5°	1445.9	1447.9	1450.1	1452.2	1454.3	1454.5	1452.9	1451.2	1449.6	1447.9	1447.5
175°	1450.3	1452.6	1455.0	1457.3	1459.7	1460.0	1458.4	1456.7	1455.1	1453.5	1453.0
177.5°	1453.0	1454.7	1456.4	1458.1	1459.7	1460.0	1458.6	1457.3	1456.0	1454.7	1454.5
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



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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°	11.2	11.3	10.9	10.1	10.0	9.9	11.7	13.4	12.1	11.3	10.9
90°	17.3	15.4	13.6	11.4	8.8	6.2	3.6	1.0	3.6	6.2	8.8
92.5°	22.6	21.6	20.7	20.3	20.6	20.8	21.0	21.3	21.0	20.8	20.6
95°	37.8	36.2	34.5	37.5	45.3	53.0	60.7	68.4	60.7	53.0	45.3
97.5°	47.4	43.6	39.8	48.8	70.6	92.3	114.1	135.9	114.1	92.3	70.6
100°	52.1	48.1	44.1	58.2	90.2	122.3	154.4	186.4	154.4	122.3	90.2
102.5°	128.3	161.5	194.8	214.9	221.7	228.4	235.2	242.0	235.2	228.4	221.7
105°	192.0	256.0	319.9	348.3	341.2	334.2	327.2	320.2	327.2	334.2	341.2
107.5°	243.2	319.9	396.5	432.0	426.3	420.6	414.9	409.3	414.9	420.6	426.3
110°	319.6	387.3	454.9	486.2	481.3	476.4	471.5	466.6	471.5	476.4	481.3



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	498.3	515.1	531.8	538.0	533.6	529.2	524.9	520.5	524.9	529.2	533.6
115°	638.2	632.3	626.5	621.6	617.5	613.5	609.6	605.6	609.6	613.5	617.5
117.5°	711.7	707.7	703.7	699.5	695.0	690.5	686.1	681.7	686.1	690.5	695.0
120°	763.6	759.4	755.2	751.3	747.8	744.2	740.8	737.3	740.8	744.2	747.8
122.5°	812.5	808.0	803.4	799.3	795.6	791.9	788.2	784.5	788.2	791.9	795.6
125°	881.1	876.7	872.2	868.4	865.4	862.4	859.3	856.3	859.3	862.4	865.4
127.5°	944.9	941.5	938.2	934.9	931.5	928.1	924.7	921.4	924.7	928.1	931.5
130°	985.9	983.3	980.8	977.7	973.9	970.2	966.4	962.7	966.4	970.2	973.9
132.5°	1025.5	1023.0	1020.4	1017.5	1014.3	1011.2	1008.0	1004.8	1008.0	1011.2	1014.3
135°	1081.7	1079.5	1077.5	1074.5	1070.7	1067.0	1063.2	1059.5	1063.2	1067.0	1070.7
137.5°	1132.7	1130.3	1127.9	1125.4	1122.8	1120.2	1117.6	1114.9	1117.6	1120.2	1122.8
140°	1166.1	1163.5	1160.9	1158.6	1156.8	1154.9	1153.1	1151.2	1153.1	1154.9	1156.8
142.5°	1196.4	1193.5	1190.6	1188.3	1186.5	1184.9	1183.2	1181.6	1183.2	1184.9	1186.5
145°	1238.0	1234.1	1230.0	1228.2	1228.4	1228.6	1228.9	1229.1	1228.9	1228.6	1228.4
147.5°	1276.4	1272.5	1268.6	1267.0	1267.9	1268.9	1269.7	1270.6	1269.7	1268.9	1267.9
150°	1299.6	1295.8	1292.1	1291.0	1292.6	1294.3	1296.0	1297.6	1296.0	1294.3	1292.6
152.5°	1321.0	1317.4	1313.9	1313.0	1314.8	1316.6	1318.5	1320.3	1318.5	1316.6	1314.8
155°	1350.9	1348.2	1345.3	1345.0	1347.0	1349.2	1351.3	1353.4	1351.3	1349.2	1347.0
157.5°	1376.2	1374.2	1372.3	1372.2	1374.0	1375.7	1377.5	1379.3	1377.5	1375.7	1374.0
160°	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1393.1	1391.6	1390.3
162.5°	1404.6	1403.4	1402.2	1402.3	1403.8	1405.2	1406.5	1408.0	1406.5	1405.2	1403.8
165°	1421.5	1420.8	1420.1	1420.5	1421.9	1423.2	1424.7	1426.1	1424.7	1423.2	1421.9
167.5°	1434.9	1434.3	1433.6	1433.9	1435.4	1436.8	1438.1	1439.6	1438.1	1436.8	1435.4
170°	1442.0	1441.5	1441.1	1441.5	1442.9	1444.3	1445.7	1447.2	1445.7	1444.3	1442.9
172.5°	1447.0	1446.6	1446.1	1446.6	1447.9	1449.4	1450.8	1452.2	1450.8	1449.4	1447.9
175°	1452.5	1452.1	1451.6	1452.2	1453.8	1455.4	1457.1	1458.7	1457.1	1455.4	1453.8
177.5°	1454.3	1454.1	1454.0	1454.5	1455.9	1457.2	1458.4	1459.7	1458.4	1457.2	1455.9
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

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°	10.9	10.9	10.4	10.8	11.2	11.1	11.3	11.1	11.3	11.5	11.3
90°	11.4	13.6	15.4	17.3	19.2	21.1	22.2	23.4	24.5	25.7	26.6
92.5°	20.3	20.7	21.6	22.6	23.5	24.5	25.1	25.7	26.3	26.9	27.3
95°	37.5	34.5	36.2	37.8	39.4	41.1	42.3	43.4	44.6	45.7	46.2
97.5°	48.8	39.8	43.6	47.4	51.2	55.0	55.9	56.8	57.8	58.7	59.3
100°	58.2	44.1	48.1	52.1	56.1	60.0	61.9	63.8	65.6	67.5	68.7
102.5°	214.9	194.8	161.5	128.3	95.0	61.7	64.1	66.6	69.1	71.5	73.0
105°	348.3	319.9	256.0	192.0	128.1	64.2	66.8	69.4	72.0	74.6	76.3
107.5°	432.0	396.5	319.9	243.2	166.6	90.0	87.3	84.7	82.1	79.5	78.6
110°	486.2	454.9	387.3	319.6	251.9	184.3	160.9	137.5	114.1	90.7	79.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	538.0	531.8	515.1	498.3	481.6	464.9	379.5	294.1	208.8	123.4	81.0
115°	621.6	626.5	632.3	638.2	644.0	649.9	541.5	433.1	324.8	216.4	153.8
117.5°	699.5	703.7	707.7	711.7	715.7	719.8	693.5	667.4	641.1	614.9	574.1
120°	751.3	755.2	759.4	763.6	767.8	772.0	774.8	777.7	780.4	783.3	768.9
122.5°	799.3	803.4	808.0	812.5	817.2	821.7	823.4	825.1	826.8	828.5	826.2
125°	868.4	872.2	876.7	881.1	885.5	890.0	891.7	893.3	894.9	896.6	897.7
127.5°	934.9	938.2	941.5	944.9	948.1	951.5	953.9	956.2	958.6	961.0	962.3
130°	977.7	980.8	983.3	985.9	988.5	991.1	993.7	996.3	998.8	1001.3	1002.5
132.5°	1017.5	1020.4	1023.0	1025.5	1028.1	1030.7	1032.9	1035.1	1037.2	1039.5	1040.4
135°	1074.5	1077.5	1079.5	1081.7	1083.7	1085.9	1088.2	1090.5	1092.9	1095.3	1096.1
137.5°	1125.4	1127.9	1130.3	1132.7	1135.1	1137.5	1139.8	1142.0	1144.4	1146.7	1147.4
140°	1158.6	1160.9	1163.5	1166.1	1168.6	1171.2	1173.3	1175.4	1177.5	1179.7	1180.1
142.5°	1188.3	1190.6	1193.5	1196.4	1199.4	1202.4	1204.3	1206.2	1208.2	1210.0	1210.4
145°	1228.2	1230.0	1234.1	1238.0	1242.0	1246.0	1247.6	1249.2	1250.9	1252.5	1252.8
147.5°	1267.0	1268.6	1272.5	1276.4	1280.4	1284.3	1285.6	1286.8	1288.0	1289.2	1289.3
150°	1291.0	1292.1	1295.8	1299.6	1303.3	1307.1	1308.5	1309.8	1311.3	1312.7	1312.8
152.5°	1313.0	1313.9	1317.4	1321.0	1324.6	1328.1	1329.6	1330.9	1332.3	1333.8	1333.7
155°	1345.0	1345.3	1348.2	1350.9	1353.8	1356.6	1358.0	1359.3	1360.8	1362.2	1361.9
157.5°	1372.2	1372.3	1374.2	1376.2	1378.2	1380.2	1381.7	1383.4	1384.9	1386.6	1386.4
160°	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1395.9	1397.3	1398.7	1400.1	1400.0
162.5°	1402.3	1402.2	1403.4	1404.6	1405.9	1407.1	1408.7	1410.3	1411.9	1413.5	1413.2
165°	1420.5	1420.1	1420.8	1421.5	1422.2	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4
167.5°	1433.9	1433.6	1434.3	1434.9	1435.5	1436.1	1437.8	1439.4	1441.1	1442.7	1442.5
170°	1441.5	1441.1	1441.5	1442.0	1442.4	1442.9	1444.6	1446.2	1447.9	1449.5	1449.2
172.5°	1446.6	1446.1	1446.6	1447.0	1447.5	1447.9	1449.6	1451.2	1452.9	1454.5	1454.3
175°	1452.2	1451.6	1452.1	1452.5	1453.0	1453.5	1455.1	1456.7	1458.4	1460.0	1459.7
177.5°	1454.5	1454.0	1454.1	1454.3	1454.5	1454.7	1456.0	1457.3	1458.6	1460.0	1459.7
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

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°	11.4	11.0	11.5	11.2	11.5	11.0	11.4	11.3	11.5	11.3	11.1
90°	27.0	27.5	28.0	28.4	28.0	27.5	27.0	26.6	25.7	24.5	23.4
92.5°	27.6	27.9	28.2	28.4	28.2	27.9	27.6	27.3	26.9	26.3	25.7
95°	46.0	45.7	45.5	45.3	45.5	45.7	46.0	46.2	45.7	44.6	43.4
97.5°	59.6	59.9	60.2	60.4	60.2	59.9	59.6	59.3	58.7	57.8	56.8
100°	69.1	69.7	70.1	70.6	70.1	69.7	69.1	68.7	67.5	65.6	63.8
102.5°	73.6	74.3	75.0	75.6	75.0	74.3	73.6	73.0	71.5	69.1	66.6
105°	77.2	78.2	79.1	80.1	79.1	78.2	77.2	76.3	74.6	72.0	69.4
107.5°	79.6	80.5	81.5	82.4	81.5	80.5	79.6	78.6	79.5	82.1	84.7
110°	80.4	81.4	82.3	83.2	82.3	81.4	80.4	79.5	90.7	114.1	137.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	81.8	82.6	83.3	84.0	83.3	82.6	81.8	81.0	123.4	208.8	294.1
115°	136.9	120.1	103.2	86.4	103.2	120.1	136.9	153.8	216.4	324.8	433.1
117.5°	518.8	463.4	408.0	352.6	408.0	463.4	518.8	574.1	614.9	641.1	667.4
120°	737.3	705.7	674.1	642.5	674.1	705.7	737.3	768.9	783.3	780.4	777.7
122.5°	820.1	814.0	807.9	801.7	807.9	814.0	820.1	826.2	828.5	826.8	825.1
125°	898.4	899.1	899.8	900.5	899.8	899.1	898.4	897.7	896.6	894.9	893.3
127.5°	962.4	962.6	962.7	962.9	962.7	962.6	962.4	962.3	961.0	958.6	956.2
130°	1002.3	1002.1	1001.9	1001.6	1001.9	1002.1	1002.3	1002.5	1001.3	998.8	996.3
132.5°	1040.3	1040.0	1039.7	1039.6	1039.7	1040.0	1040.3	1040.4	1039.5	1037.2	1035.1
135°	1095.7	1095.3	1094.8	1094.3	1094.8	1095.3	1095.7	1096.1	1095.3	1092.9	1090.5
137.5°	1146.6	1145.8	1145.0	1144.2	1145.0	1145.8	1146.6	1147.4	1146.7	1144.4	1142.0
140°	1178.9	1177.8	1176.6	1175.4	1176.6	1177.8	1178.9	1180.1	1179.7	1177.5	1175.4
142.5°	1209.3	1208.1	1206.9	1205.7	1206.9	1208.1	1209.3	1210.4	1210.0	1208.2	1206.2
145°	1251.5	1250.4	1249.2	1248.1	1249.2	1250.4	1251.5	1252.8	1252.5	1250.9	1249.2
147.5°	1288.3	1287.3	1286.3	1285.4	1286.3	1287.3	1288.3	1289.3	1289.2	1288.0	1286.8
150°	1311.6	1310.4	1309.2	1308.1	1309.2	1310.4	1311.6	1312.8	1312.7	1311.3	1309.8
152.5°	1332.1	1330.6	1329.0	1327.5	1329.0	1330.6	1332.1	1333.7	1333.8	1332.3	1330.9
155°	1360.0	1358.2	1356.3	1354.4	1356.3	1358.2	1360.0	1361.9	1362.2	1360.8	1359.3
157.5°	1384.6	1382.8	1381.0	1379.1	1381.0	1382.8	1384.6	1386.4	1386.6	1384.9	1383.4
160°	1398.4	1396.7	1395.1	1393.4	1395.1	1396.7	1398.4	1400.0	1400.1	1398.7	1397.3
162.5°	1411.3	1409.2	1407.2	1405.2	1407.2	1409.2	1411.3	1413.2	1413.5	1411.9	1410.3
165°	1427.8	1426.2	1424.5	1422.9	1424.5	1426.2	1427.8	1429.4	1429.4	1427.8	1426.2
167.5°	1440.4	1438.3	1436.1	1434.1	1436.1	1438.3	1440.4	1442.5	1442.7	1441.1	1439.4
170°	1447.2	1445.0	1442.9	1440.8	1442.9	1445.0	1447.2	1449.2	1449.5	1447.9	1446.2
172.5°	1452.2	1450.1	1447.9	1445.9	1447.9	1450.1	1452.2	1454.3	1454.5	1452.9	1451.2
175°	1457.3	1455.0	1452.6	1450.3	1452.6	1455.0	1457.3	1459.7	1460.0	1458.4	1456.7
177.5°	1458.1	1456.4	1454.7	1453.0	1454.7	1456.4	1458.1	1459.7	1460.0	1458.6	1457.3
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

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°	11.3	11.1	11.2	10.8	10.4	10.9	10.9	10.9	11.3	12.1	13.4
90°	22.2	21.1	19.2	17.3	15.4	13.6	11.4	8.8	6.2	3.6	1.0
92.5°	25.1	24.5	23.5	22.6	21.6	20.7	20.3	20.6	20.8	21.0	21.3
95°	42.3	41.1	39.4	37.8	36.2	34.5	37.5	45.3	53.0	60.7	68.4
97.5°	55.9	55.0	51.2	47.4	43.6	39.8	48.8	70.6	92.3	114.1	135.9
100°	61.9	60.0	56.1	52.1	48.1	44.1	58.2	90.2	122.3	154.4	186.4
102.5°	64.1	61.7	95.0	128.3	161.5	194.8	214.9	221.7	228.4	235.2	242.0
105°	66.8	64.2	128.1	192.0	256.0	319.9	348.3	341.2	334.2	327.2	320.2
107.5°	87.3	90.0	166.6	243.2	319.9	396.5	432.0	426.3	420.6	414.9	409.3
110°	160.9	184.3	251.9	319.6	387.3	454.9	486.2	481.3	476.4	471.5	466.6



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	379.5	464.9	481.6	498.3	515.1	531.8	538.0	533.6	529.2	524.9	520.5
115°	541.5	649.9	644.0	638.2	632.3	626.5	621.6	617.5	613.5	609.6	605.6
117.5°	693.5	719.8	715.7	711.7	707.7	703.7	699.5	695.0	690.5	686.1	681.7
120°	774.8	772.0	767.8	763.6	759.4	755.2	751.3	747.8	744.2	740.8	737.3
122.5°	823.4	821.7	817.2	812.5	808.0	803.4	799.3	795.6	791.9	788.2	784.5
125°	891.7	890.0	885.5	881.1	876.7	872.2	868.4	865.4	862.4	859.3	856.3
127.5°	953.9	951.5	948.1	944.9	941.5	938.2	934.9	931.5	928.1	924.7	921.4
130°	993.7	991.1	988.5	985.9	983.3	980.8	977.7	973.9	970.2	966.4	962.7
132.5°	1032.9	1030.7	1028.1	1025.5	1023.0	1020.4	1017.5	1014.3	1011.2	1008.0	1004.8
135°	1088.2	1085.9	1083.7	1081.7	1079.5	1077.5	1074.5	1070.7	1067.0	1063.2	1059.5
137.5°	1139.8	1137.5	1135.1	1132.7	1130.3	1127.9	1125.4	1122.8	1120.2	1117.6	1114.9
140°	1173.3	1171.2	1168.6	1166.1	1163.5	1160.9	1158.6	1156.8	1154.9	1153.1	1151.2
142.5°	1204.3	1202.4	1199.4	1196.4	1193.5	1190.6	1188.3	1186.5	1184.9	1183.2	1181.6
145°	1247.6	1246.0	1242.0	1238.0	1234.1	1230.0	1228.2	1228.4	1228.6	1228.9	1229.1
147.5°	1285.6	1284.3	1280.4	1276.4	1272.5	1268.6	1267.0	1267.9	1268.9	1269.7	1270.6
150°	1308.5	1307.1	1303.3	1299.6	1295.8	1292.1	1291.0	1292.6	1294.3	1296.0	1297.6
152.5°	1329.6	1328.1	1324.6	1321.0	1317.4	1313.9	1313.0	1314.8	1316.6	1318.5	1320.3
155°	1358.0	1356.6	1353.8	1350.9	1348.2	1345.3	1345.0	1347.0	1349.2	1351.3	1353.4
157.5°	1381.7	1380.2	1378.2	1376.2	1374.2	1372.3	1372.2	1374.0	1375.7	1377.5	1379.3
160°	1395.9	1394.5	1393.1	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5
162.5°	1408.7	1407.1	1405.9	1404.6	1403.4	1402.2	1402.3	1403.8	1405.2	1406.5	1408.0
165°	1424.5	1422.9	1422.2	1421.5	1420.8	1420.1	1420.5	1421.9	1423.2	1424.7	1426.1
167.5°	1437.8	1436.1	1435.5	1434.9	1434.3	1433.6	1433.9	1435.4	1436.8	1438.1	1439.6
170°	1444.6	1442.9	1442.4	1442.0	1441.5	1441.1	1441.5	1442.9	1444.3	1445.7	1447.2
172.5°	1449.6	1447.9	1447.5	1447.0	1446.6	1446.1	1446.6	1447.9	1449.4	1450.8	1452.2
175°	1455.1	1453.5	1453.0	1452.5	1452.1	1451.6	1452.2	1453.8	1455.4	1457.1	1458.7
177.5°	1456.0	1454.7	1454.5	1454.3	1454.1	1454.0	1454.5	1455.9	1457.2	1458.4	1459.7
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



TEST NUMBER: P331837-935

CATALOG NUMBER: S122RDIW-S865D1240U935-4F0-1E-UDD-A

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°	11.7	9.9	10.0	10.1	10.9	11.3	11.2	11.6	12.4	12.2	12.9
90°	3.6	6.2	8.8	11.4	13.6	15.4	17.3	19.2	21.1	22.2	23.4
92.5°	21.0	20.8	20.6	20.3	20.7	21.6	22.6	23.5	24.5	25.1	25.7
95°	60.7	53.0	45.3	37.5	34.5	36.2	37.8	39.4	41.1	42.3	43.4
97.5°	114.1	92.3	70.6	48.8	39.8	43.6	47.4	51.2	55.0	55.9	56.8
100°	154.4	122.3	90.2	58.2	44.1	48.1	52.1	56.1	60.0	61.9	63.8
102.5°	235.2	228.4	221.7	214.9	194.8	161.5	128.3	95.0	61.7	64.1	66.6
105°	327.2	334.2	341.2	348.3	319.9	256.0	192.0	128.1	64.2	66.8	69.4
107.5°	414.9	420.6	426.3	432.0	396.5	319.9	243.2	166.6	90.0	87.3	84.7
110°	471.5	476.4	481.3	486.2	454.9	387.3	319.6	251.9	184.3	160.9	137.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	524.9	529.2	533.6	538.0	531.8	515.1	498.3	481.6	464.9	379.5	294.1
115°	609.6	613.5	617.5	621.6	626.5	632.3	638.2	644.0	649.9	541.5	433.1
117.5°	686.1	690.5	695.0	699.5	703.7	707.7	711.7	715.7	719.8	693.5	667.4
120°	740.8	744.2	747.8	751.3	755.2	759.4	763.6	767.8	772.0	774.8	777.7
122.5°	788.2	791.9	795.6	799.3	803.4	808.0	812.5	817.2	821.7	823.4	825.1
125°	859.3	862.4	865.4	868.4	872.2	876.7	881.1	885.5	890.0	891.7	893.3
127.5°	924.7	928.1	931.5	934.9	938.2	941.5	944.9	948.1	951.5	953.9	956.2
130°	966.4	970.2	973.9	977.7	980.8	983.3	985.9	988.5	991.1	993.7	996.3
132.5°	1008.0	1011.2	1014.3	1017.5	1020.4	1023.0	1025.5	1028.1	1030.7	1032.9	1035.1
135°	1063.2	1067.0	1070.7	1074.5	1077.5	1079.5	1081.7	1083.7	1085.9	1088.2	1090.5
137.5°	1117.6	1120.2	1122.8	1125.4	1127.9	1130.3	1132.7	1135.1	1137.5	1139.8	1142.0
140°	1153.1	1154.9	1156.8	1158.6	1160.9	1163.5	1166.1	1168.6	1171.2	1173.3	1175.4
142.5°	1183.2	1184.9	1186.5	1188.3	1190.6	1193.5	1196.4	1199.4	1202.4	1204.3	1206.2
145°	1228.9	1228.6	1228.4	1228.2	1230.0	1234.1	1238.0	1242.0	1246.0	1247.6	1249.2
147.5°	1269.7	1268.9	1267.9	1267.0	1268.6	1272.5	1276.4	1280.4	1284.3	1285.6	1286.8
150°	1296.0	1294.3	1292.6	1291.0	1292.1	1295.8	1299.6	1303.3	1307.1	1308.5	1309.8
152.5°	1318.5	1316.6	1314.8	1313.0	1313.9	1317.4	1321.0	1324.6	1328.1	1329.6	1330.9
155°	1351.3	1349.2	1347.0	1345.0	1345.3	1348.2	1350.9	1353.8	1356.6	1358.0	1359.3
157.5°	1377.5	1375.7	1374.0	1372.2	1372.3	1374.2	1376.2	1378.2	1380.2	1381.7	1383.4
160°	1393.1	1391.6	1390.3	1388.9	1388.9	1390.3	1391.6	1393.1	1394.5	1395.9	1397.3
162.5°	1406.5	1405.2	1403.8	1402.3	1402.2	1403.4	1404.6	1405.9	1407.1	1408.7	1410.3
165°	1424.7	1423.2	1421.9	1420.5	1420.1	1420.8	1421.5	1422.2	1422.9	1424.5	1426.2
167.5°	1438.1	1436.8	1435.4	1433.9	1433.6	1434.3	1434.9	1435.5	1436.1	1437.8	1439.4
170°	1445.7	1444.3	1442.9	1441.5	1441.1	1441.5	1442.0	1442.4	1442.9	1444.6	1446.2
172.5°	1450.8	1449.4	1447.9	1446.6	1446.1	1446.6	1447.0	1447.5	1447.9	1449.6	1451.2
175°	1457.1	1455.4	1453.8	1452.2	1451.6	1452.1	1452.5	1453.0	1453.5	1455.1	1456.7
177.5°	1458.4	1457.2	1455.9	1454.5	1454.0	1454.1	1454.3	1454.5	1454.7	1456.0	1457.3
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5



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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°	12.7	12.9	13.1	13.2	13.3	13.3	13.0
90°	24.5	25.7	26.6	27.0	27.5	28.0	28.4
92.5°	26.3	26.9	27.3	27.6	27.9	28.2	28.4
95°	44.6	45.7	46.2	46.0	45.7	45.5	45.3
97.5°	57.8	58.7	59.3	59.6	59.9	60.2	60.4
100°	65.6	67.5	68.7	69.1	69.7	70.1	70.6
102.5°	69.1	71.5	73.0	73.6	74.3	75.0	75.6
105°	72.0	74.6	76.3	77.2	78.2	79.1	80.1
107.5°	82.1	79.5	78.6	79.6	80.5	81.5	82.4
110°	114.1	90.7	79.5	80.4	81.4	82.3	83.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	208.8	123.4	81.0	81.8	82.6	83.3	84.0
115°	324.8	216.4	153.8	136.9	120.1	103.2	86.4
117.5°	641.1	614.9	574.1	518.8	463.4	408.0	352.6
120°	780.4	783.3	768.9	737.3	705.7	674.1	642.5
122.5°	826.8	828.5	826.2	820.1	814.0	807.9	801.7
125°	894.9	896.6	897.7	898.4	899.1	899.8	900.5
127.5°	958.6	961.0	962.3	962.4	962.6	962.7	962.9
130°	998.8	1001.3	1002.5	1002.3	1002.1	1001.9	1001.6
132.5°	1037.2	1039.5	1040.4	1040.3	1040.0	1039.7	1039.6
135°	1092.9	1095.3	1096.1	1095.7	1095.3	1094.8	1094.3
137.5°	1144.4	1146.7	1147.4	1146.6	1145.8	1145.0	1144.2
140°	1177.5	1179.7	1180.1	1178.9	1177.8	1176.6	1175.4
142.5°	1208.2	1210.0	1210.4	1209.3	1208.1	1206.9	1205.7
145°	1250.9	1252.5	1252.8	1251.5	1250.4	1249.2	1248.1
147.5°	1288.0	1289.2	1289.3	1288.3	1287.3	1286.3	1285.4
150°	1311.3	1312.7	1312.8	1311.6	1310.4	1309.2	1308.1
152.5°	1332.3	1333.8	1333.7	1332.1	1330.6	1329.0	1327.5
155°	1360.8	1362.2	1361.9	1360.0	1358.2	1356.3	1354.4
157.5°	1384.9	1386.6	1386.4	1384.6	1382.8	1381.0	1379.1
160°	1398.7	1400.1	1400.0	1398.4	1396.7	1395.1	1393.4
162.5°	1411.9	1413.5	1413.2	1411.3	1409.2	1407.2	1405.2
165°	1427.8	1429.4	1429.4	1427.8	1426.2	1424.5	1422.9
167.5°	1441.1	1442.7	1442.5	1440.4	1438.3	1436.1	1434.1
170°	1447.9	1449.5	1449.2	1447.2	1445.0	1442.9	1440.8
172.5°	1452.9	1454.5	1454.3	1452.2	1450.1	1447.9	1445.9
175°	1458.4	1460.0	1459.7	1457.3	1455.0	1452.6	1450.3
177.5°	1458.6	1460.0	1459.7	1458.1	1456.4	1454.7	1453.0
180°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5

(END OF REPORT)