

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: P331841-930

Luminaire Tested: **S122RDIW-S865D1440U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331841-930
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-S865D1440U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7390.8 lumens
Efficiency: N/A
Efficacy: 96.5 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

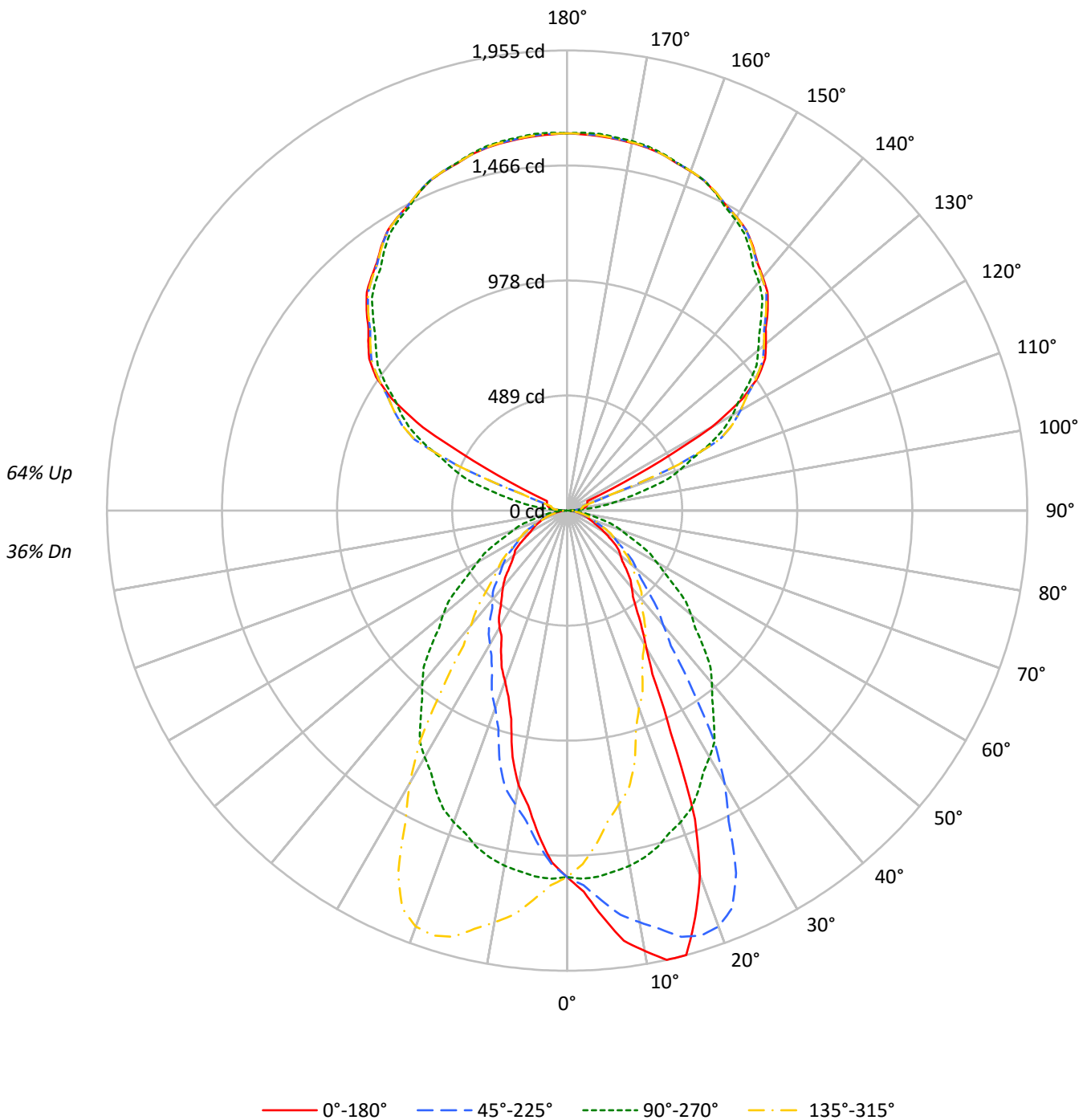
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	88	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32				
2	87	80	75	70	79	73	68	64	60	56	53	47	45	43	35	34	33	28				
3	80	71	64	59	72	65	59	54	53	49	45	42	39	37	32	30	29	24				
4	73	63	56	50	66	58	52	47	48	43	39	38	35	32	29	27	25	21				
5	68	57	49	43	61	52	45	40	43	38	34	34	31	28	26	24	22	19				
6	62	51	43	38	57	47	40	35	39	34	30	31	28	25	24	22	20	17				
7	58	46	39	33	52	42	36	31	35	30	27	29	25	22	22	20	18	15				
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	21	18	16	14				
9	50	39	31	27	46	36	29	25	30	25	22	24	21	18	19	17	15	13				
10	47	35	29	24	43	33	27	23	27	23	20	23	19	17	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	2.0
10°-20°	411.2	5.6
20°-30°	529.9	7.2
30°-40°	503.6	6.8
40°-50°	431.4	5.8
50°-60°	328.5	4.4
60°-70°	207.7	2.8
70°-80°	103.7	1.4
80°-90°	30.9	0.4
90°-100°	53.5	0.7
100°-110°	196.0	2.7
110°-120°	524.0	7.1
120°-130°	865.0	11.7
130°-140°	919.9	12.4
140°-150°	855.0	11.6
150°-160°	687.4	9.3
160°-170°	443.0	6.0
170°-180°	152.5	2.1
0°-30°	1088.7	14.7
0°-40°	1592.3	21.5
0°-60°	2352.3	31.8
0°-90°	2694.6	36.5
90°-120°	773.5	10.5
90°-150°	3413.3	46.2
90°-180°	4696.0	63.5
0°-180°	7390.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	22
90°	31	1	31	1	31	15
95°	50	75	50	75	50	47
105°	88	352	88	352	88	92
115°	95	667	95	667	95	238
125°	991	943	991	943	991	858
135°	1205	1166	1205	1166	1205	929
145°	1374	1353	1374	1353	1374	859
155°	1491	1490	1491	1490	1491	688
165°	1566	1570	1566	1570	1566	442
175°	1597	1606	1597	1606	1597	152
180°	1602	1602	1602	1602	1602	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	13.2	13.5	13.5	13.3	13.2	13.0	12.8	13.0	12.2	12.4	11.6
90°	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8	24.5	23.2	21.1
92.5°	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2	27.6	26.9	25.8
95°	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8	46.5	45.2	43.5
97.5°	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6	61.6	60.5	56.3
100°	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2	68.2	66.1	61.7
102.5°	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3	70.6	67.9	104.6
105°	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4	73.5	70.8	141.0
107.5°	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3	96.1	99.1	183.4
110°	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4	177.2	202.9	277.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8	417.8	511.8	530.2
115°	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9	596.1	715.4	709.0
117.5°	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7	763.6	792.5	788.0
120°	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1	853.0	849.9	845.3
122.5°	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4	906.5	904.7	899.6
125°	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4	981.6	979.8	974.9
127.5°	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8	1050.2	1047.6	1043.9
130°	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8	1094.0	1091.1	1088.3
132.5°	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5	1137.2	1134.7	1131.9
135°	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6	1198.1	1195.5	1193.2
137.5°	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4	1254.8	1252.3	1249.7
140°	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0	1291.8	1289.4	1286.6
142.5°	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0	1325.8	1323.7	1320.5
145°	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3	1373.5	1371.7	1367.3
147.5°	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7	1415.3	1414.0	1409.7
150°	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1	1440.6	1439.0	1434.8
152.5°	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3	1463.7	1462.2	1458.2
155°	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6	1495.0	1493.5	1490.4
157.5°	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0	1521.3	1519.5	1517.3
160°	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3	1536.8	1535.2	1533.7
162.5°	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7	1550.9	1549.2	1547.8
165°	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5	1565.8
167.5°	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8	1583.0	1581.2	1580.5
170°	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2	1590.4	1588.6	1588.0
172.5°	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7	1595.9	1594.2	1593.7
175°	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8	1602.0	1600.2	1599.7
177.5°	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4	1603.0	1601.6	1601.3
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	11.2	11.2	10.8	9.9	9.7	9.6	11.2	12.8	11.6	10.9	10.6
90°	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1	4.0	6.8	9.7
92.5°	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4	23.2	22.9	22.7
95°	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3	66.9	58.4	49.9
97.5°	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6	125.6	101.7	77.7
100°	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2	169.9	134.6	99.3
102.5°	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4	259.0	251.5	244.0
105°	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5	360.2	367.9	375.7
107.5°	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6	456.8	463.1	469.3
110°	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7	519.1	524.5	529.9



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1	577.8	582.6	587.4
115°	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8	671.2	675.5	679.9
117.5°	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5	755.4	760.3	765.2
120°	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7	815.5	819.4	823.3
122.5°	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6	867.7	871.8	875.9
125°	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7	946.1	949.4	952.8
127.5°	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4	1018.1	1021.8	1025.5
130°	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8	1064.0	1068.0	1072.2
132.5°	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2	1109.7	1113.2	1116.7
135°	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5	1170.6	1174.8	1178.8
137.5°	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5	1230.4	1233.3	1236.2
140°	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4	1269.4	1271.5	1273.6
142.5°	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8	1302.6	1304.5	1306.4
145°	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2	1352.9	1352.7	1352.4
147.5°	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9	1397.9	1396.9	1396.0
150°	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6	1426.8	1425.0	1423.2
152.5°	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6	1451.6	1449.6	1447.6
155°	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0	1487.7	1485.4	1483.0
157.5°	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6	1516.6	1514.7	1512.7
160°	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1533.7	1532.2	1530.6
162.5°	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0	1548.6	1547.0	1545.5
165°	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0	1568.5	1566.9	1565.4
167.5°	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9	1583.3	1581.8	1580.2
170°	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3	1591.7	1590.2	1588.6
172.5°	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8	1597.3	1595.7	1594.2
175°	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0	1604.2	1602.4	1600.6
177.5°	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1	1605.7	1604.3	1602.8
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	10.8	10.8	10.4	10.8	11.2	11.2	11.4	11.3	11.5	11.7	11.5
90°	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8	27.1	28.4	29.3
92.5°	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2	28.9	29.6	30.1
95°	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8	49.1	50.4	50.9
97.5°	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6	63.6	64.7	65.3
100°	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2	72.3	74.4	75.7
102.5°	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3	76.0	78.7	80.4
105°	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4	79.2	82.1	84.0
107.5°	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3	90.3	87.5	86.6
110°	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4	125.6	99.9	87.5



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8	229.8	135.8	89.2
115°	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9	357.5	238.2	169.3
117.5°	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7	705.9	677.0	632.1
120°	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1	859.2	862.3	846.4
122.5°	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4	910.3	912.1	909.6
125°	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4	985.2	987.0	988.3
127.5°	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8	1055.4	1058.0	1059.5
130°	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8	1099.7	1102.4	1103.8
132.5°	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5	1142.0	1144.4	1145.5
135°	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6	1203.2	1205.8	1206.8
137.5°	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4	1259.9	1262.4	1263.2
140°	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0	1296.4	1298.7	1299.2
142.5°	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0	1330.1	1332.2	1332.6
145°	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3	1377.1	1379.0	1379.2
147.5°	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7	1418.0	1419.4	1419.4
150°	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1	1443.7	1445.2	1445.3
152.5°	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3	1466.8	1468.4	1468.3
155°	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6	1498.1	1499.7	1499.4
157.5°	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0	1524.7	1526.5	1526.3
160°	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3	1539.9	1541.4	1541.3
162.5°	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7	1554.4	1556.2	1555.9
165°	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8
167.5°	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8	1586.6	1588.4	1588.1
170°	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2	1594.0	1595.8	1595.5
172.5°	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7	1599.5	1601.3	1601.1
175°	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8	1605.6	1607.4	1607.0
177.5°	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4	1605.9	1607.4	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331841-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	11.6	11.3	11.8	11.4	11.8	11.3	11.6	11.5	11.7	11.5	11.3
90°	29.8	30.2	30.8	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8
92.5°	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2
95°	50.6	50.4	50.1	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8
97.5°	65.6	66.0	66.3	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6
100°	76.1	76.6	77.2	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2
102.5°	81.1	81.8	82.5	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3
105°	85.0	86.1	87.1	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4
107.5°	87.6	88.6	89.7	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3
110°	88.5	89.5	90.6	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	90.1	90.9	91.7	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8
115°	150.7	132.2	113.7	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9
117.5°	571.1	510.1	449.1	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7
120°	811.7	776.9	742.1	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1
122.5°	902.9	896.2	889.4	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4
125°	989.1	989.9	990.7	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4
127.5°	1059.6	1059.7	1059.9	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8
130°	1103.5	1103.3	1103.0	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8
132.5°	1145.3	1145.0	1144.8	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5
135°	1206.3	1205.8	1205.3	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6
137.5°	1262.3	1261.5	1260.6	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4
140°	1298.0	1296.7	1295.3	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0
142.5°	1331.3	1330.0	1328.8	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0
145°	1377.9	1376.6	1375.3	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3
147.5°	1418.4	1417.3	1416.2	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7
150°	1444.1	1442.8	1441.4	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1
152.5°	1466.6	1464.9	1463.2	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3
155°	1497.4	1495.3	1493.2	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6
157.5°	1524.4	1522.3	1520.3	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0
160°	1539.5	1537.7	1535.9	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3
162.5°	1553.7	1551.5	1549.3	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7
165°	1572.0	1570.2	1568.4	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2
167.5°	1585.8	1583.5	1581.2	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8
170°	1593.3	1590.9	1588.6	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2
172.5°	1598.8	1596.4	1594.2	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7
175°	1604.4	1601.8	1599.3	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8
177.5°	1605.2	1603.4	1601.6	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	11.4	11.2	11.2	10.8	10.4	10.8	10.8	10.6	10.9	11.6	12.8
90°	24.5	23.2	21.1	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1
92.5°	27.6	26.9	25.8	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4
95°	46.5	45.2	43.5	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3
97.5°	61.6	60.5	56.3	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6
100°	68.2	66.1	61.7	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2
102.5°	70.6	67.9	104.6	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4
105°	73.5	70.8	141.0	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5
107.5°	96.1	99.1	183.4	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6
110°	177.2	202.9	277.4	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	417.8	511.8	530.2	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1
115°	596.1	715.4	709.0	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8
117.5°	763.6	792.5	788.0	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5
120°	853.0	849.9	845.3	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7
122.5°	906.5	904.7	899.6	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6
125°	981.6	979.8	974.9	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7
127.5°	1050.2	1047.6	1043.9	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4
130°	1094.0	1091.1	1088.3	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8
132.5°	1137.2	1134.7	1131.9	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2
135°	1198.1	1195.5	1193.2	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5
137.5°	1254.8	1252.3	1249.7	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5
140°	1291.8	1289.4	1286.6	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4
142.5°	1325.8	1323.7	1320.5	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8
145°	1373.5	1371.7	1367.3	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2
147.5°	1415.3	1414.0	1409.7	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9
150°	1440.6	1439.0	1434.8	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6
152.5°	1463.7	1462.2	1458.2	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6
155°	1495.0	1493.5	1490.4	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0
157.5°	1521.3	1519.5	1517.3	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6
160°	1536.8	1535.2	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2
162.5°	1550.9	1549.2	1547.8	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0
165°	1568.4	1566.5	1565.8	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0
167.5°	1583.0	1581.2	1580.5	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9
170°	1590.4	1588.6	1588.0	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3
172.5°	1595.9	1594.2	1593.7	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8
175°	1602.0	1600.2	1599.7	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0
177.5°	1603.0	1601.6	1601.3	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331841-930

CATALOG NUMBER: S122RDIW-S865D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	11.2	9.6	9.7	9.9	10.8	11.2	11.2	11.6	12.4	12.2	13.0
90°	4.0	6.8	9.7	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8
92.5°	23.2	22.9	22.7	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2
95°	66.9	58.4	49.9	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8
97.5°	125.6	101.7	77.7	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6
100°	169.9	134.6	99.3	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2
102.5°	259.0	251.5	244.0	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3
105°	360.2	367.9	375.7	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4
107.5°	456.8	463.1	469.3	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3
110°	519.1	524.5	529.9	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	577.8	582.6	587.4	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8
115°	671.2	675.5	679.9	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9
117.5°	755.4	760.3	765.2	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7
120°	815.5	819.4	823.3	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1
122.5°	867.7	871.8	875.9	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4
125°	946.1	949.4	952.8	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4
127.5°	1018.1	1021.8	1025.5	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8
130°	1064.0	1068.0	1072.2	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8
132.5°	1109.7	1113.2	1116.7	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5
135°	1170.6	1174.8	1178.8	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6
137.5°	1230.4	1233.3	1236.2	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4
140°	1269.4	1271.5	1273.6	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0
142.5°	1302.6	1304.5	1306.4	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0
145°	1352.9	1352.7	1352.4	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3
147.5°	1397.9	1396.9	1396.0	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7
150°	1426.8	1425.0	1423.2	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1
152.5°	1451.6	1449.6	1447.6	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3
155°	1487.7	1485.4	1483.0	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6
157.5°	1516.6	1514.7	1512.7	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0
160°	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3
162.5°	1548.6	1547.0	1545.5	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7
165°	1568.5	1566.9	1565.4	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2
167.5°	1583.3	1581.8	1580.2	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8
170°	1591.7	1590.2	1588.6	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2
172.5°	1597.3	1595.7	1594.2	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7
175°	1604.2	1602.4	1600.6	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8
177.5°	1605.7	1604.3	1602.8	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	12.8	13.0	13.2	13.3	13.5	13.5	13.2
90°	27.1	28.4	29.3	29.8	30.2	30.8	31.3
92.5°	28.9	29.6	30.1	30.4	30.7	31.0	31.3
95°	49.1	50.4	50.9	50.6	50.4	50.1	49.9
97.5°	63.6	64.7	65.3	65.6	66.0	66.3	66.5
100°	72.3	74.4	75.7	76.1	76.6	77.2	77.7
102.5°	76.0	78.7	80.4	81.1	81.8	82.5	83.2
105°	79.2	82.1	84.0	85.0	86.1	87.1	88.1
107.5°	90.3	87.5	86.6	87.6	88.6	89.7	90.7
110°	125.6	99.9	87.5	88.5	89.5	90.6	91.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.8	135.8	89.2	90.1	90.9	91.7	92.5
115°	357.5	238.2	169.3	150.7	132.2	113.7	95.1
117.5°	705.9	677.0	632.1	571.1	510.1	449.1	388.2
120°	859.2	862.3	846.4	811.7	776.9	742.1	707.4
122.5°	910.3	912.1	909.6	902.9	896.2	889.4	882.6
125°	985.2	987.0	988.3	989.1	989.9	990.7	991.4
127.5°	1055.4	1058.0	1059.5	1059.6	1059.7	1059.9	1060.1
130°	1099.7	1102.4	1103.8	1103.5	1103.3	1103.0	1102.7
132.5°	1142.0	1144.4	1145.5	1145.3	1145.0	1144.8	1144.4
135°	1203.2	1205.8	1206.8	1206.3	1205.8	1205.3	1204.8
137.5°	1259.9	1262.4	1263.2	1262.3	1261.5	1260.6	1259.7
140°	1296.4	1298.7	1299.2	1298.0	1296.7	1295.3	1294.0
142.5°	1330.1	1332.2	1332.6	1331.3	1330.0	1328.8	1327.5
145°	1377.1	1379.0	1379.2	1377.9	1376.6	1375.3	1374.1
147.5°	1418.0	1419.4	1419.4	1418.4	1417.3	1416.2	1415.1
150°	1443.7	1445.2	1445.3	1444.1	1442.8	1441.4	1440.1
152.5°	1466.8	1468.4	1468.3	1466.6	1464.9	1463.2	1461.5
155°	1498.1	1499.7	1499.4	1497.4	1495.3	1493.2	1491.2
157.5°	1524.7	1526.5	1526.3	1524.4	1522.3	1520.3	1518.3
160°	1539.9	1541.4	1541.3	1539.5	1537.7	1535.9	1534.1
162.5°	1554.4	1556.2	1555.9	1553.7	1551.5	1549.3	1547.1
165°	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5
167.5°	1586.6	1588.4	1588.1	1585.8	1583.5	1581.2	1578.8
170°	1594.0	1595.8	1595.5	1593.3	1590.9	1588.6	1586.2
172.5°	1599.5	1601.3	1601.1	1598.8	1596.4	1594.2	1591.8
175°	1605.6	1607.4	1607.0	1604.4	1601.8	1599.3	1596.7
177.5°	1605.9	1607.4	1607.1	1605.2	1603.4	1601.6	1599.7
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5

(END OF REPORT)