

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: P331837-830

Luminaire Tested: **S122RDIW-S865D1240U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331837-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D1240U830-4F0-1E-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: 7784.0 lumens
Efficiency: N/A
Efficacy: 111.5 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: General Diffuse

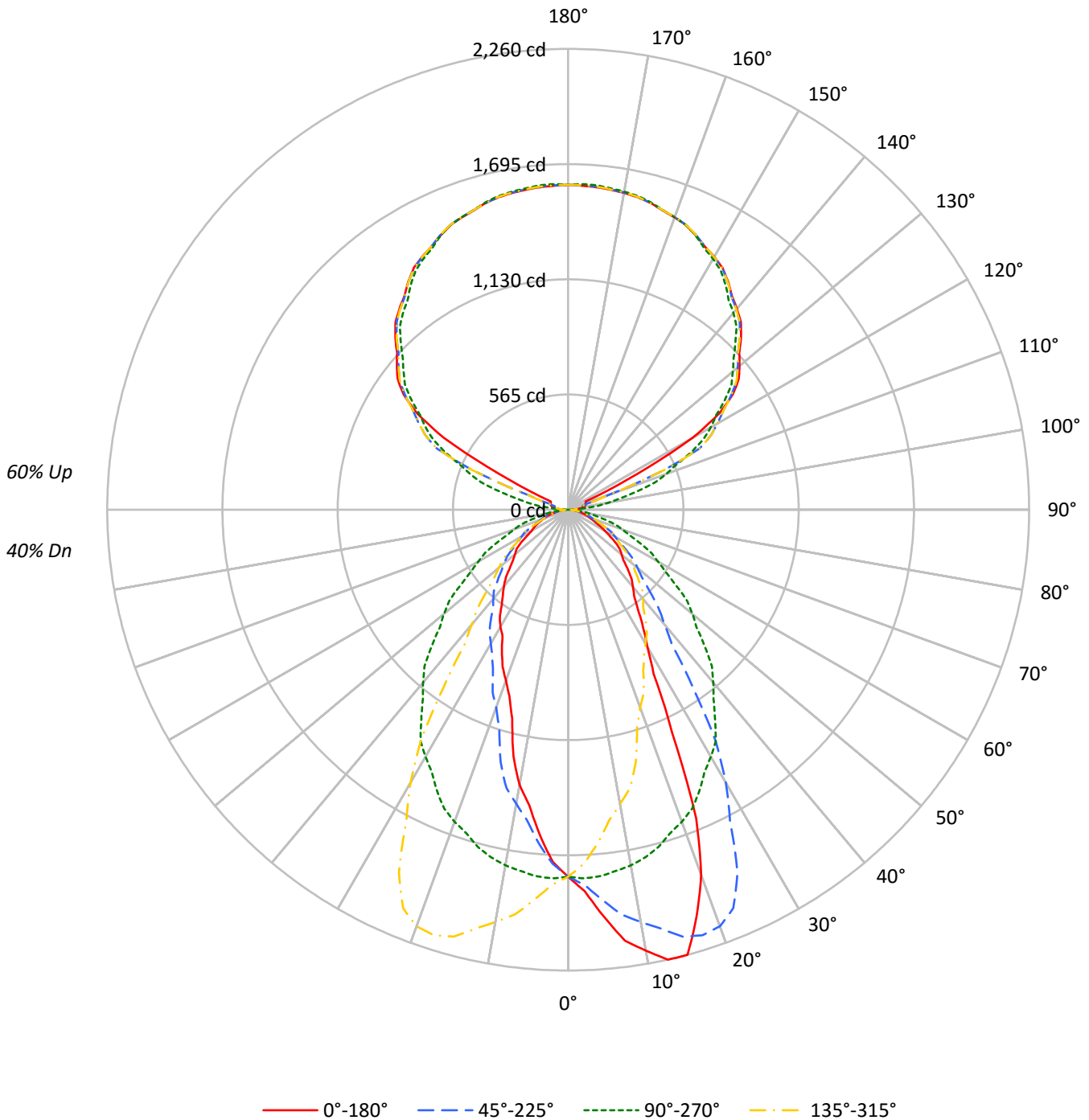
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.2
10°-20°	475.4	6.1
20°-30°	612.6	7.9
30°-40°	582.2	7.5
40°-50°	498.7	6.4
50°-60°	379.8	4.9
60°-70°	240.1	3.1
70°-80°	119.9	1.5
80°-90°	35.1	0.5
90°-100°	53.1	0.7
100°-110°	194.9	2.5
110°-120°	521.0	6.7
120°-130°	860.1	11.0
130°-140°	914.7	11.8
140°-150°	850.1	10.9
150°-160°	683.5	8.8
160°-170°	440.5	5.7
170°-180°	151.6	1.9
0°-30°	1258.6	16.2
0°-40°	1840.8	23.6
0°-60°	2719.4	34.9
0°-90°	3114.5	40.0
90°-120°	769.1	9.9
90°-150°	3394.0	43.6
90°-180°	4670.0	60.0
0°-180°	7784.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	25
90°	31	1	31	1	31	15
95°	50	75	50	75	50	46
105°	88	350	88	350	88	91
115°	94	663	94	663	94	237
125°	986	937	986	937	986	853
135°	1198	1160	1198	1160	1198	923
145°	1366	1346	1366	1346	1366	854
155°	1483	1482	1483	1482	1483	684
165°	1558	1561	1558	1561	1558	440
175°	1588	1597	1588	1597	1588	151
180°	1593	1593	1593	1593	1593	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	14.2	14.6	14.5	14.4	14.3	14.1	13.9	14.1	13.4	13.6	12.7
90°	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6	24.3	23.1	21.0
92.5°	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1	27.4	26.8	25.7
95°	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5	46.3	45.0	43.2
97.5°	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2	61.2	60.2	56.1
100°	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8	67.8	65.7	61.4
102.5°	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9	70.2	67.6	104.0
105°	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0	73.1	70.3	140.3
107.5°	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7	95.6	98.5	182.4
110°	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5	176.2	201.8	275.8



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	12.3	12.3	12.0	11.0	10.9	10.8	12.8	14.7	13.3	12.3	12.0
90°	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1	4.0	6.8	9.6
92.5°	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3	23.0	22.8	22.5
95°	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9	66.4	58.1	49.6
97.5°	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7	124.9	101.0	77.3
100°	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1	169.0	133.8	98.8
102.5°	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9	257.5	250.1	242.7
105°	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5	358.2	365.9	373.5
107.5°	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1	454.2	460.4	466.7
110°	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8	516.1	521.5	526.9



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	12.0	12.0	11.4	11.8	12.3	12.2	12.3	12.2	12.3	12.6	12.3
90°	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6	26.9	28.2	29.1
92.5°	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1	28.7	29.4	29.9
95°	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5	48.8	50.0	50.6
97.5°	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2	63.2	64.3	64.9
100°	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8	71.8	73.9	75.2
102.5°	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9	75.6	78.2	79.9
105°	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0	78.8	81.6	83.5
107.5°	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7	89.8	87.0	86.1
110°	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5	124.9	99.2	87.0



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	12.4	12.1	12.6	12.3	12.6	12.1	12.4	12.3	12.6	12.3	12.2
90°	29.6	30.1	30.6	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6
92.5°	30.2	30.5	30.8	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1
95°	50.3	50.0	49.9	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5
97.5°	65.2	65.6	65.9	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2
100°	75.7	76.3	76.7	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8
102.5°	80.6	81.3	82.1	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9
105°	84.5	85.6	86.6	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0
107.5°	87.1	88.1	89.2	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7
110°	88.0	89.1	90.1	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331837-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	12.3	12.2	12.3	11.8	11.4	12.0	12.0	12.0	12.3	13.3	14.7
90°	24.3	23.1	21.0	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1
92.5°	27.4	26.8	25.7	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3
95°	46.3	45.0	43.2	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9
97.5°	61.2	60.2	56.1	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7
100°	67.8	65.7	61.4	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1
102.5°	70.2	67.6	104.0	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9
105°	73.1	70.3	140.3	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5
107.5°	95.6	98.5	182.4	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1
110°	176.2	201.8	275.8	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8



TEST NUMBER: P331837-830

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CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331837-830

CATALOG NUMBER: S122RDIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.8	10.8	10.9	11.0	12.0	12.3	12.3	12.7	13.6	13.4	14.1
90°	4.0	6.8	9.6	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6
92.5°	23.0	22.8	22.5	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1
95°	66.4	58.1	49.6	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5
97.5°	124.9	101.0	77.3	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2
100°	169.0	133.8	98.8	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8
102.5°	257.5	250.1	242.7	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9
105°	358.2	365.9	373.5	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0
107.5°	454.2	460.4	466.7	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7
110°	516.1	521.5	526.9	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	13.9	14.1	14.3	14.4	14.5	14.6	14.2
90°	26.9	28.2	29.1	29.6	30.1	30.6	31.1
92.5°	28.7	29.4	29.9	30.2	30.5	30.8	31.1
95°	48.8	50.0	50.6	50.3	50.0	49.9	49.6
97.5°	63.2	64.3	64.9	65.2	65.6	65.9	66.2
100°	71.8	73.9	75.2	75.7	76.3	76.7	77.3
102.5°	75.6	78.2	79.9	80.6	81.3	82.1	82.8
105°	78.8	81.6	83.5	84.5	85.6	86.6	87.7
107.5°	89.8	87.0	86.1	87.1	88.1	89.2	90.2
110°	124.9	99.2	87.0	88.0	89.1	90.1	91.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)