

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331842-830

Luminaire Tested: **S122RDIW-S865D1440U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331842-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D1440U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7825.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

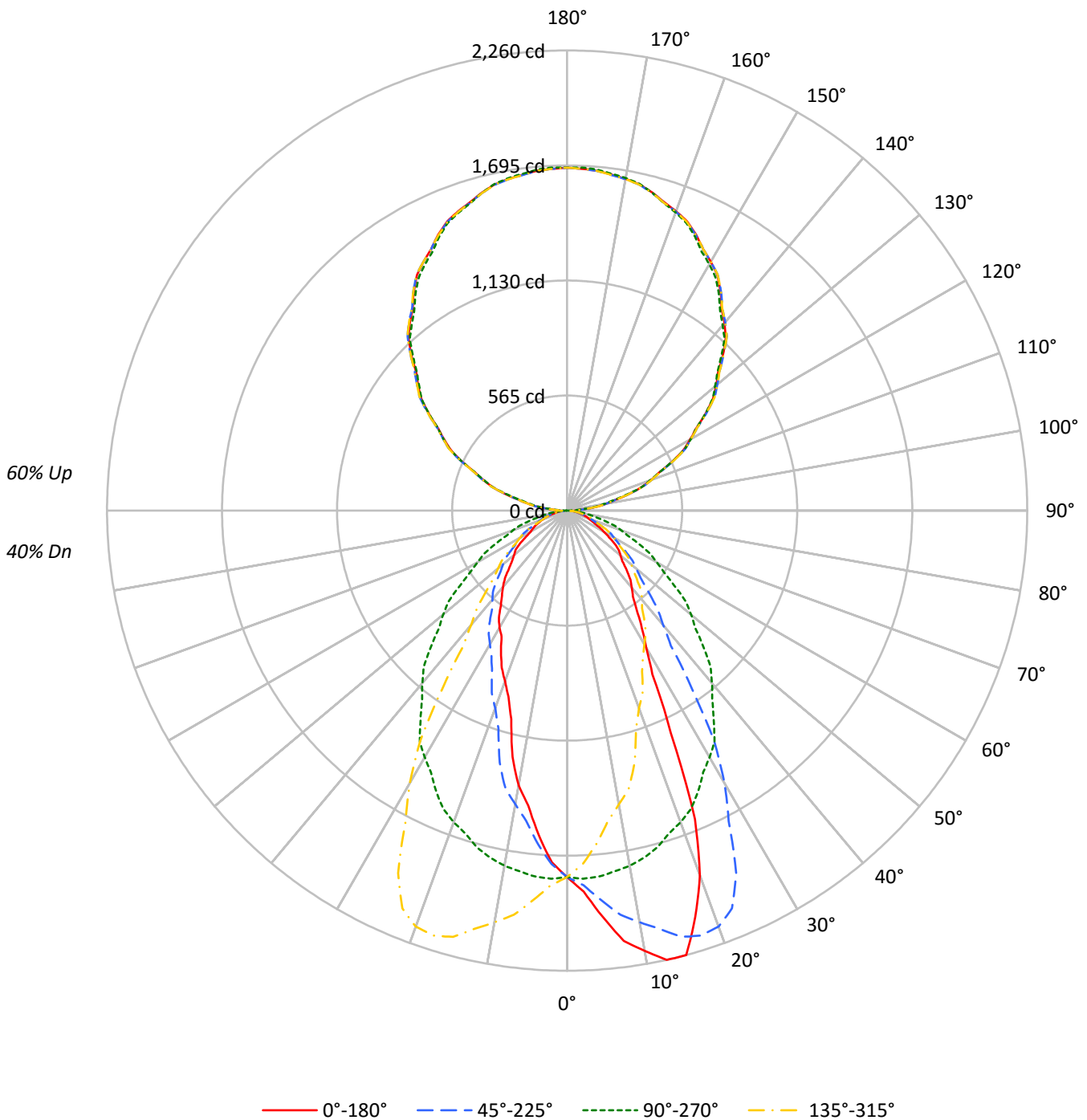
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	7.8
30°-40°	582.2	7.4
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°	37.9	0.5
90°-100°	106.7	1.4
100°-110°	331.4	4.2
110°-120°	566.4	7.2
120°-130°	744.9	9.5
130°-140°	836.1	10.7
140°-150°	819.8	10.5
150°-160°	687.6	8.8
160°-170°	456.0	5.8
170°-180°	159.4	2.0
0°-30°	1258.6	16.1
0°-40°	1840.8	23.5
0°-60°	2719.4	34.8
0°-90°	3117.3	39.8
90°-120°	1004.5	12.8
90°-150°	3405.2	43.5
90°-180°	4708.0	60.2
0°-180°	7825.5	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°	48	1	48	1	48	22
95°	88	74	88	74	88	98
105°	316	306	316	306	316	332
115°	568	568	568	568	568	561
125°	830	827	830	827	830	740
135°	1083	1070	1083	1070	1083	833
145°	1313	1299	1313	1299	1313	820
155°	1496	1485	1496	1485	1496	689
165°	1617	1616	1617	1616	1617	456
175°	1675	1681	1675	1681	1675	159
180°	1684	1684	1684	1684	1684	



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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°	17.6	18.1	18.0	18.0	17.9	17.9	18.1	18.7	18.3	18.9	17.1
90°	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4	49.1	49.8	42.8
92.5°	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4	45.3	45.1	43.5
95°	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0	91.0	91.0	90.3
97.5°	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9	152.9	152.9	151.7
100°	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0	196.0	196.0	195.1
102.5°	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2	243.0	242.7	241.5
105°	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9	313.2	312.6	312.0
107.5°	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1	389.8	389.6	389.6
110°	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0	442.0	442.0	442.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8	494.6	495.3	495.6
115°	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4	573.7	574.1	574.7
117.5°	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4	651.2	652.0	653.7
120°	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9	701.9	701.9	704.5
122.5°	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0	755.7	756.5	758.3
125°	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6	834.5	835.5	836.5
127.5°	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9	911.1	912.3	913.4
130°	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1	962.8	963.4	964.0
132.5°	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0	1014.3	1015.7	1015.6
135°	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8	1088.2	1088.4	1087.8
137.5°	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5	1159.8	1160.1	1159.2
140°	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8	1207.8	1207.8	1206.3
142.5°	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5	1251.2	1251.0	1249.9
145°	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9	1317.5	1317.2	1315.3
147.5°	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0	1375.4	1374.6	1373.4
150°	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0	1409.8
152.5°	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4	1445.9
155°	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6	1495.0	1493.4	1492.4
157.5°	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7	1537.6	1535.5	1534.9
160°	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4	1563.5	1561.6	1561.3
162.5°	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7	1586.5	1584.3	1584.0
165°	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6	1616.4	1614.2	1614.2
167.5°	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3	1641.2	1638.9	1639.0
170°	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0	1654.7	1652.6	1652.8
172.5°	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2	1665.0	1662.7	1663.1
175°	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3	1676.1	1673.9	1674.5
177.5°	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4	1680.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



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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°	15.6	14.8	13.4	11.8	11.6	11.3	13.0	14.8	13.6	12.8	12.5
90°	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4	5.2	9.0	12.8
92.5°	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3	28.1	30.8	33.6
95°	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9	77.0	80.2	83.3
97.5°	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0	137.8	140.5	143.4
100°	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5	182.9	185.5	188.0
102.5°	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2	230.3	232.2	234.2
105°	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5	306.4	307.4	308.3
107.5°	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3	384.7	386.2	387.6
110°	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4	435.3	437.2	439.0



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0	489.8	491.7	493.6
115°	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4	570.2	572.1	574.1
117.5°	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6	651.0	653.6	656.1
120°	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	704.5	707.0	709.5
122.5°	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8	753.8	756.9	759.9
125°	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0	829.8	832.6	835.5
127.5°	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2	904.7	908.3	912.0
130°	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7	951.9	956.0	960.1
132.5°	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0	1003.4	1006.7	1010.1
135°	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0	1073.5	1076.9	1080.3
137.5°	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6	1146.4	1149.2	1152.1
140°	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9	1190.7	1193.6	1196.5
142.5°	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4	1236.2	1239.1	1241.9
145°	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7	1301.0	1303.2	1305.3
147.5°	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0	1359.6	1362.3	1365.0
150°	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8	1398.6	1400.6	1402.5
152.5°	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0	1433.9	1435.8	1437.7
155°	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9	1485.8	1486.8	1487.7
157.5°	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0	1530.7	1531.3	1532.0
160°	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4	1558.0	1558.6	1559.2
162.5°	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3	1582.5	1582.6	1582.7
165°	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6	1615.3	1615.0	1614.7
167.5°	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4	1642.5	1641.5	1640.6
170°	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2	1657.3	1656.3	1655.4
172.5°	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5	1667.5	1666.6	1665.7
175°	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9	1680.0	1679.0	1678.1
177.5°	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1	1685.4	1684.6	1683.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

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°	12.8	13.4	13.8	15.2	16.6	17.4	17.3	16.7	16.6	16.4	15.9
90°	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4	47.9	47.2	47.0
92.5°	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4	45.5	45.7	45.8
95°	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0	91.0	91.0	90.6
97.5°	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9	152.9	152.9	152.9
100°	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0	196.0	196.0	196.0
102.5°	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2	243.5	243.7	243.6
105°	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9	314.5	315.1	315.5
107.5°	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1	390.4	390.6	390.0
110°	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	441.4



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8	493.0	492.3	491.5
115°	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4	573.1	572.8	572.1
117.5°	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4	649.7	648.9	648.0
120°	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9	701.9	701.9	701.4
122.5°	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0	754.2	753.5	752.7
125°	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6	832.6	831.7	831.1
127.5°	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9	908.8	907.7	906.6
130°	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1	961.5	960.8	959.9
132.5°	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0	1011.5	1010.1	1008.9
135°	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8	1087.5	1087.2	1086.6
137.5°	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5	1159.3	1159.0	1158.3
140°	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8	1207.8	1207.8	1207.2
142.5°	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5	1251.8	1252.0	1251.5
145°	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9	1318.1	1318.4	1318.0
147.5°	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0	1376.7	1377.4	1377.1
150°	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8
152.5°	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2
155°	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6	1498.2	1499.7	1500.1
157.5°	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7	1541.9	1544.1	1544.4
160°	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4	1567.3	1569.1	1569.5
162.5°	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7	1590.8	1592.9	1593.3
165°	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6	1620.8	1623.1	1623.3
167.5°	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3	1645.6	1647.8	1648.0
170°	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0	1659.2	1661.4	1661.5
172.5°	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2	1669.4	1671.6	1671.8
175°	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3	1680.5	1682.7	1682.9
177.5°	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

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°	16.0	15.6	16.1	15.6	16.1	15.6	16.0	15.9	16.4	16.6	16.7
90°	47.4	47.7	48.0	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4
92.5°	45.8	45.9	46.0	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4
95°	90.0	89.4	88.7	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0
97.5°	152.8	152.7	152.7	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9
100°	195.6	195.3	195.0	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0
102.5°	243.4	243.1	242.7	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2
105°	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9
107.5°	388.6	387.1	385.7	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1
110°	440.5	439.5	438.6	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	490.9	490.2	489.5	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8
115°	571.2	570.2	569.3	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4
117.5°	647.1	646.1	645.2	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4
120°	700.5	699.6	698.6	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9
122.5°	752.1	751.4	750.6	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0
125°	830.8	830.5	830.2	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6
127.5°	905.6	904.6	903.6	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9
130°	958.7	957.4	956.1	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1
132.5°	1008.0	1006.9	1005.9	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0
135°	1085.6	1084.7	1083.7	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8
137.5°	1157.1	1155.7	1154.5	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5
140°	1205.9	1204.7	1203.3	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8
142.5°	1250.3	1249.0	1247.7	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5
145°	1316.7	1315.5	1314.2	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9
147.5°	1375.9	1374.7	1373.6	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0
150°	1413.8	1412.9	1411.9	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9
152.5°	1451.0	1449.7	1448.6	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7
155°	1499.1	1498.2	1497.2	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6
157.5°	1542.8	1541.3	1539.8	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7
160°	1568.2	1567.0	1565.8	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4
162.5°	1591.8	1590.3	1588.7	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7
165°	1621.7	1620.2	1618.6	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6
167.5°	1646.4	1644.7	1643.1	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3
170°	1659.6	1657.7	1655.9	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0
172.5°	1669.9	1668.0	1666.1	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2
175°	1680.9	1679.0	1677.2	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3
177.5°	1685.0	1683.5	1681.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

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°	17.3	17.4	16.6	15.2	13.8	13.4	12.8	12.5	12.8	13.6	14.8
90°	49.1	49.8	42.8	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4
92.5°	45.3	45.1	43.5	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3
95°	91.0	91.0	90.3	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9
97.5°	152.9	152.9	151.7	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0
100°	196.0	196.0	195.1	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5
102.5°	243.0	242.7	241.5	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2
105°	313.2	312.6	312.0	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5
107.5°	389.8	389.6	389.6	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3
110°	442.0	442.0	442.0	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.6	495.3	495.6	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0
115°	573.7	574.1	574.7	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4
117.5°	651.2	652.0	653.7	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6
120°	701.9	701.9	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9
122.5°	755.7	756.5	758.3	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8
125°	834.5	835.5	836.5	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0
127.5°	911.1	912.3	913.4	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2
130°	962.8	963.4	964.0	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7
132.5°	1014.3	1015.7	1015.6	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0
135°	1088.2	1088.4	1087.8	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0
137.5°	1159.8	1160.1	1159.2	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6
140°	1207.8	1207.8	1206.3	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9
142.5°	1251.2	1251.0	1249.9	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4
145°	1317.5	1317.2	1315.3	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7
147.5°	1375.4	1374.6	1373.4	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0
150°	1411.9	1411.0	1409.8	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8
152.5°	1448.6	1447.4	1445.9	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0
155°	1495.0	1493.4	1492.4	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9
157.5°	1537.6	1535.5	1534.9	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0
160°	1563.5	1561.6	1561.3	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4
162.5°	1586.5	1584.3	1584.0	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3
165°	1616.4	1614.2	1614.2	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6
167.5°	1641.2	1638.9	1639.0	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4
170°	1654.7	1652.6	1652.8	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2
172.5°	1665.0	1662.7	1663.1	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5
175°	1676.1	1673.9	1674.5	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9
177.5°	1681.9	1680.4	1680.9	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331842-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-UDD-A1

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°	13.0	11.3	11.6	11.8	13.4	14.8	15.6	17.1	18.9	18.3	18.7
90°	5.2	9.0	12.8	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4
92.5°	28.1	30.8	33.6	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4
95°	77.0	80.2	83.3	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0
97.5°	137.8	140.5	143.4	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9
100°	182.9	185.5	188.0	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0
102.5°	230.3	232.2	234.2	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2
105°	306.4	307.4	308.3	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9
107.5°	384.7	386.2	387.6	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1
110°	435.3	437.2	439.0	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.8	491.7	493.6	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8
115°	570.2	572.1	574.1	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4
117.5°	651.0	653.6	656.1	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4
120°	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9
122.5°	753.8	756.9	759.9	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0
125°	829.8	832.6	835.5	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6
127.5°	904.7	908.3	912.0	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9
130°	951.9	956.0	960.1	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1
132.5°	1003.4	1006.7	1010.1	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0
135°	1073.5	1076.9	1080.3	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8
137.5°	1146.4	1149.2	1152.1	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5
140°	1190.7	1193.6	1196.5	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8
142.5°	1236.2	1239.1	1241.9	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5
145°	1301.0	1303.2	1305.3	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9
147.5°	1359.6	1362.3	1365.0	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0
150°	1398.6	1400.6	1402.5	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9
152.5°	1433.9	1435.8	1437.7	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7
155°	1485.8	1486.8	1487.7	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6
157.5°	1530.7	1531.3	1532.0	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7
160°	1558.0	1558.6	1559.2	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4
162.5°	1582.5	1582.6	1582.7	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7
165°	1615.3	1615.0	1614.7	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6
167.5°	1642.5	1641.5	1640.6	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3
170°	1657.3	1656.3	1655.4	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0
172.5°	1667.5	1666.6	1665.7	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2
175°	1680.0	1679.0	1678.1	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3
177.5°	1685.4	1684.6	1683.9	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



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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°	18.1	17.9	17.9	18.0	18.0	18.1	17.6
90°	47.9	47.2	47.0	47.4	47.7	48.0	48.4
92.5°	45.5	45.7	45.8	45.8	45.9	46.0	46.0
95°	91.0	91.0	90.6	90.0	89.4	88.7	88.1
97.5°	152.9	152.9	152.9	152.8	152.7	152.7	152.6
100°	196.0	196.0	196.0	195.6	195.3	195.0	194.6
102.5°	243.5	243.7	243.6	243.4	243.1	242.7	242.4
105°	314.5	315.1	315.5	315.5	315.5	315.5	315.5
107.5°	390.4	390.6	390.0	388.6	387.1	385.7	384.2
110°	442.0	442.0	441.4	440.5	439.5	438.6	437.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	493.0	492.3	491.5	490.9	490.2	489.5	488.8
115°	573.1	572.8	572.1	571.2	570.2	569.3	568.4
117.5°	649.7	648.9	648.0	647.1	646.1	645.2	644.2
120°	701.9	701.9	701.4	700.5	699.6	698.6	697.7
122.5°	754.2	753.5	752.7	752.1	751.4	750.6	750.0
125°	832.6	831.7	831.1	830.8	830.5	830.2	829.8
127.5°	908.8	907.7	906.6	905.6	904.6	903.6	902.6
130°	961.5	960.8	959.9	958.7	957.4	956.1	954.9
132.5°	1011.5	1010.1	1008.9	1008.0	1006.9	1005.9	1004.8
135°	1087.5	1087.2	1086.6	1085.6	1084.7	1083.7	1082.8
137.5°	1159.3	1159.0	1158.3	1157.1	1155.7	1154.5	1153.2
140°	1207.8	1207.8	1207.2	1205.9	1204.7	1203.3	1202.1
142.5°	1251.8	1252.0	1251.5	1250.3	1249.0	1247.7	1246.4
145°	1318.1	1318.4	1318.0	1316.7	1315.5	1314.2	1313.0
147.5°	1376.7	1377.4	1377.1	1375.9	1374.7	1373.6	1372.3
150°	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0
152.5°	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4
155°	1498.2	1499.7	1500.1	1499.1	1498.2	1497.2	1496.3
157.5°	1541.9	1544.1	1544.4	1542.8	1541.3	1539.8	1538.3
160°	1567.3	1569.1	1569.5	1568.2	1567.0	1565.8	1564.4
162.5°	1590.8	1592.9	1593.3	1591.8	1590.3	1588.7	1587.1
165°	1620.8	1623.1	1623.3	1621.7	1620.2	1618.6	1617.0
167.5°	1645.6	1647.8	1648.0	1646.4	1644.7	1643.1	1641.4
170°	1659.2	1661.4	1661.5	1659.6	1657.7	1655.9	1654.0
172.5°	1669.4	1671.6	1671.8	1669.9	1668.0	1666.1	1664.2
175°	1680.5	1682.7	1682.9	1680.9	1679.0	1677.2	1675.3
177.5°	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9

(END OF REPORT)