

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: P331841-830

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331841-830
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-S865D1440U830-4F0-1E-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: 8544.2 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: Semi-Indirect

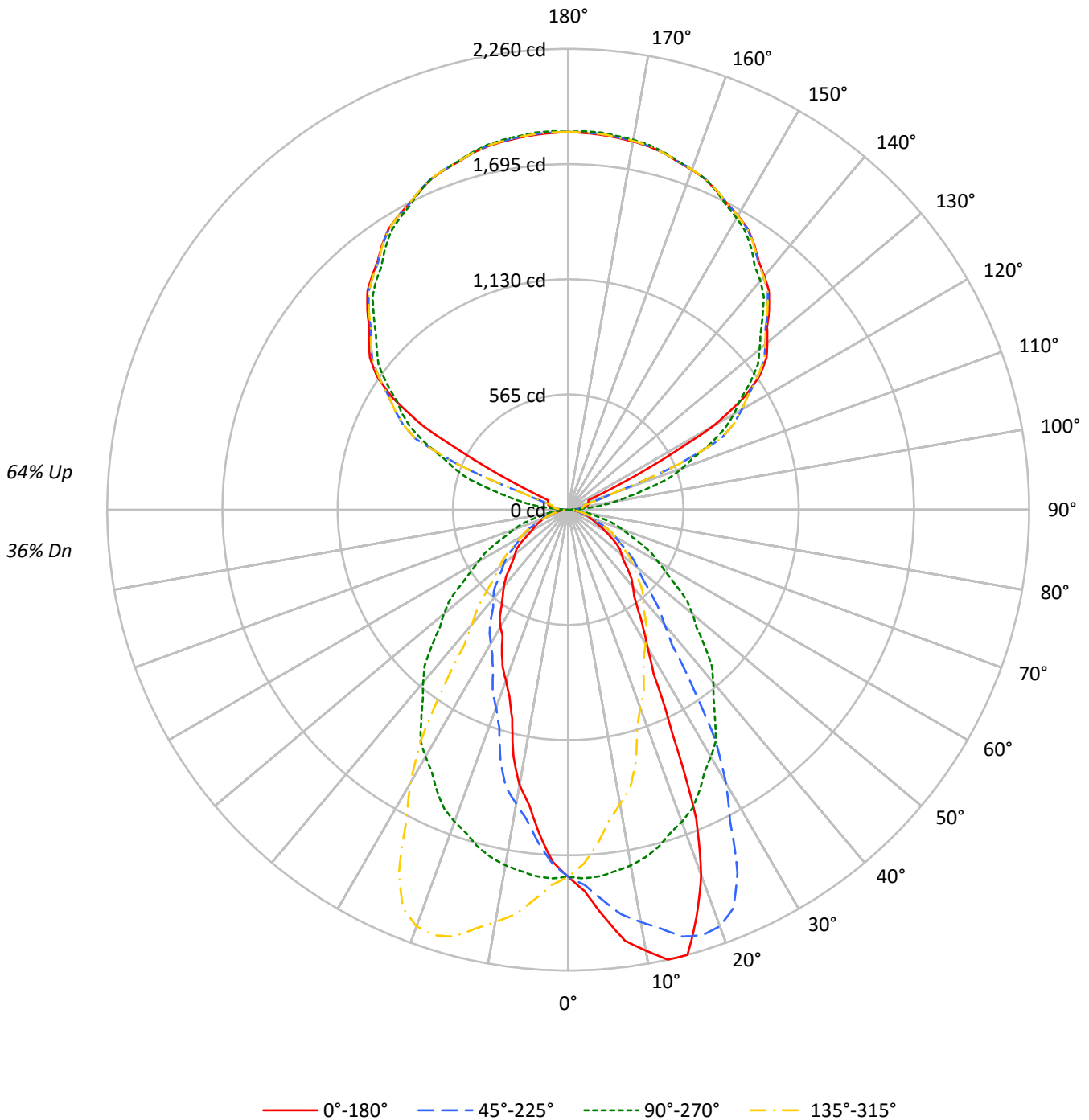
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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	2.0
10°-20°	475.4	5.6
20°-30°	612.6	7.2
30°-40°	582.2	6.8
40°-50°	498.7	5.8
50°-60°	379.8	4.4
60°-70°	240.1	2.8
70°-80°	119.9	1.4
80°-90°	35.8	0.4
90°-100°	61.8	0.7
100°-110°	226.6	2.7
110°-120°	605.8	7.1
120°-130°	1000.0	11.7
130°-140°	1063.4	12.4
140°-150°	988.4	11.6
150°-160°	794.7	9.3
160°-170°	512.1	6.0
170°-180°	176.3	2.1
0°-30°	1258.6	14.7
0°-40°	1840.8	21.5
0°-60°	2719.4	31.8
0°-90°	3115.1	36.5
90°-120°	894.2	10.5
90°-150°	3946.0	46.2
90°-180°	5429.0	63.5
0°-180°	8544.2	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°	36	1	36	1	36	17
95°	58	87	58	87	58	54
105°	102	408	102	408	102	106
115°	110	771	110	771	110	275
125°	1146	1090	1146	1090	1146	992
135°	1393	1349	1393	1349	1393	1073
145°	1589	1564	1589	1564	1589	993
155°	1724	1723	1724	1723	1724	795
165°	1811	1815	1811	1815	1811	511
175°	1846	1857	1846	1857	1846	176
180°	1853	1853	1853	1853	1853	



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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°	15.3	15.6	15.6	15.4	15.3	15.1	14.8	15.0	14.1	14.3	13.4
90°	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8	28.3	26.8	24.4
92.5°	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6	31.9	31.1	29.9
95°	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2	53.7	52.3	50.2
97.5°	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4	71.2	69.9	65.1
100°	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2	78.8	76.4	71.4
102.5°	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7	81.6	78.5	72.9
105°	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3	85.0	81.8	76.1
107.5°	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8	111.1	114.5	120.0
110°	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0	204.8	234.6	320.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4	483.1	591.7	612.9
115°	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3	689.2	827.1	819.6
117.5°	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4	882.8	916.2	911.0
120°	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8	986.2	982.6	977.2
122.5°	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2	1048.0	1045.8	1040.0
125°	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9	1134.8	1132.7	1127.1
127.5°	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1	1214.1	1211.1	1206.8
130°	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0	1264.7	1261.4	1258.1
132.5°	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4	1314.7	1311.8	1308.5
135°	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0	1385.1	1382.1	1379.4
137.5°	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6	1450.7	1447.7	1444.7
140°	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0	1493.4	1490.6	1487.4
142.5°	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2	1532.8	1530.3	1526.5
145°	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0	1587.9	1585.8	1580.7
147.5°	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8	1636.2	1634.7	1629.7
150°	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2	1665.4	1663.6	1658.8
152.5°	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9	1692.1	1690.4	1685.8
155°	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1	1728.3	1726.5	1723.1
157.5°	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7	1758.7	1756.6	1754.1
160°	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4	1776.6	1774.8	1773.0
162.5°	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0	1793.0	1790.9	1789.4
165°	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0	1810.2
167.5°	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1	1830.0	1828.0	1827.1
170°	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7	1838.6	1836.5	1835.9
172.5°	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1	1845.0	1843.0	1842.4
175°	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1	1852.0	1849.9	1849.4
177.5°	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8	1853.2	1851.5	1851.2
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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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°	12.9	12.9	12.4	11.4	11.2	11.1	12.9	14.8	13.4	12.6	12.3
90°	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3	4.6	7.9	11.2
92.5°	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1	26.8	26.5	26.2
95°	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1	77.3	67.5	57.7
97.5°	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0	145.2	117.5	89.8
100°	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2	196.4	155.6	114.8
102.5°	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0	299.4	290.8	282.1
105°	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6	416.4	425.4	434.3
107.5°	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9	528.1	535.4	542.5
110°	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9	600.1	606.3	612.7



TEST NUMBER: P331841-830

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5	668.0	673.5	679.1
115°	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8	775.9	780.9	786.0
117.5°	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6	873.3	878.9	884.6
120°	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4	942.8	947.3	951.8
122.5°	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4	1003.1	1007.9	1012.6
125°	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9	1093.7	1097.6	1101.5
127.5°	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7	1177.0	1181.3	1185.5
130°	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2	1230.0	1234.7	1239.5
132.5°	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8	1282.9	1286.9	1291.0
135°	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6	1353.3	1358.1	1362.8
137.5°	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1	1422.4	1425.8	1429.1
140°	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2	1467.5	1470.0	1472.3
142.5°	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8	1505.9	1508.1	1510.2
145°	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4	1564.1	1563.8	1563.5
147.5°	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2	1616.1	1615.0	1613.8
150°	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5	1649.4	1647.4	1645.3
152.5°	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5	1678.2	1675.8	1673.5
155°	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6	1719.9	1717.2	1714.5
157.5°	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6	1753.3	1751.1	1748.8
160°	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1773.0	1771.3	1769.5
162.5°	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0	1790.3	1788.5	1786.7
165°	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1	1813.3	1811.5	1809.7
167.5°	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2	1830.4	1828.6	1826.8
170°	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9	1840.1	1838.3	1836.5
172.5°	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3	1846.5	1844.7	1843.0
175°	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6	1854.5	1852.5	1850.4
177.5°	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9	1856.3	1854.6	1852.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331841-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-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°	12.4	12.4	12.0	12.4	12.9	12.9	13.2	13.0	13.3	13.6	13.3
90°	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8	31.3	32.8	33.8
92.5°	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6	33.5	34.2	34.8
95°	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2	56.7	58.2	58.8
97.5°	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4	73.5	74.7	75.5
100°	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2	83.6	86.0	87.5
102.5°	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7	87.8	91.0	92.9
105°	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3	91.6	94.9	97.1
107.5°	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8	104.4	101.1	100.1
110°	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0	145.2	115.5	101.1



TEST NUMBER: P331841-830

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4	265.7	157.0	103.1
115°	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3	413.3	275.4	195.7
117.5°	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4	816.1	782.7	730.8
120°	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8	993.3	996.9	978.5
122.5°	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2	1052.3	1054.4	1051.6
125°	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9	1139.0	1141.0	1142.6
127.5°	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1	1220.1	1223.1	1224.8
130°	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0	1271.3	1274.5	1276.0
132.5°	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4	1320.2	1323.0	1324.3
135°	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0	1391.0	1394.0	1395.2
137.5°	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6	1456.5	1459.4	1460.4
140°	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0	1498.7	1501.4	1501.9
142.5°	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2	1537.7	1540.1	1540.6
145°	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0	1592.0	1594.2	1594.5
147.5°	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8	1639.3	1640.9	1641.0
150°	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2	1669.0	1670.8	1670.8
152.5°	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9	1695.7	1697.5	1697.4
155°	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1	1731.9	1733.7	1733.4
157.5°	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7	1762.6	1764.7	1764.5
160°	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4	1780.2	1782.0	1781.9
162.5°	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0	1797.1	1799.0	1798.7
165°	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4
167.5°	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1	1834.2	1836.3	1836.0
170°	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7	1842.8	1844.8	1844.6
172.5°	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1	1849.2	1851.2	1851.0
175°	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1	1856.1	1858.2	1857.8
177.5°	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8	1856.5	1858.2	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331841-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-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°	13.4	13.0	13.7	13.2	13.7	13.0	13.4	13.3	13.6	13.3	13.0
90°	34.4	35.0	35.6	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8
92.5°	35.2	35.4	35.8	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6
95°	58.5	58.2	58.0	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2
97.5°	75.9	76.3	76.6	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4
100°	88.0	88.6	89.3	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2
102.5°	93.8	94.5	95.4	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7
105°	98.3	99.5	100.7	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3
107.5°	101.2	102.5	103.7	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8
110°	102.4	103.5	104.7	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0



TEST NUMBER: P331841-830

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	104.2	105.1	106.0	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4
115°	174.3	152.8	131.4	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3
117.5°	660.3	589.7	519.2	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4
120°	938.4	898.1	857.9	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8
122.5°	1043.8	1036.0	1028.2	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2
125°	1143.5	1144.3	1145.3	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9
127.5°	1224.9	1225.1	1225.3	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1
130°	1275.7	1275.4	1275.2	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0
132.5°	1324.0	1323.7	1323.4	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4
135°	1394.6	1394.0	1393.4	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0
137.5°	1459.3	1458.4	1457.4	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6
140°	1500.5	1499.0	1497.5	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0
142.5°	1539.1	1537.6	1536.2	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2
145°	1593.0	1591.5	1590.0	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0
147.5°	1639.7	1638.5	1637.2	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8
150°	1669.4	1667.9	1666.4	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2
152.5°	1695.4	1693.6	1691.6	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9
155°	1731.1	1728.7	1726.3	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1
157.5°	1762.3	1759.9	1757.6	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7
160°	1779.8	1777.6	1775.6	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4
162.5°	1796.2	1793.7	1791.1	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0
165°	1817.3	1815.2	1813.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2
167.5°	1833.3	1830.6	1828.0	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1
170°	1841.9	1839.2	1836.5	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7
172.5°	1848.3	1845.6	1843.0	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1
175°	1854.8	1851.8	1848.9	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1
177.5°	1855.8	1853.7	1851.5	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331841-830

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

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°	13.2	12.9	12.9	12.4	12.0	12.4	12.4	12.3	12.6	13.4	14.8
90°	28.3	26.8	24.4	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3
92.5°	31.9	31.1	29.9	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1
95°	53.7	52.3	50.2	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1
97.5°	71.2	69.9	65.1	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0
100°	78.8	76.4	71.4	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2
102.5°	81.6	78.5	120.9	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0
105°	85.0	81.8	163.1	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6
107.5°	111.1	114.5	212.0	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9
110°	204.8	234.6	320.7	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9



TEST NUMBER: P331841-830

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	483.1	591.7	612.9	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5
115°	689.2	827.1	819.6	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8
117.5°	882.8	916.2	911.0	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6
120°	986.2	982.6	977.2	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4
122.5°	1048.0	1045.8	1040.0	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4
125°	1134.8	1132.7	1127.1	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9
127.5°	1214.1	1211.1	1206.8	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7
130°	1264.7	1261.4	1258.1	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2
132.5°	1314.7	1311.8	1308.5	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8
135°	1385.1	1382.1	1379.4	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6
137.5°	1450.7	1447.7	1444.7	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1
140°	1493.4	1490.6	1487.4	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2
142.5°	1532.8	1530.3	1526.5	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8
145°	1587.9	1585.8	1580.7	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4
147.5°	1636.2	1634.7	1629.7	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2
150°	1665.4	1663.6	1658.8	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5
152.5°	1692.1	1690.4	1685.8	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5
155°	1728.3	1726.5	1723.1	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6
157.5°	1758.7	1756.6	1754.1	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6
160°	1776.6	1774.8	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8
162.5°	1793.0	1790.9	1789.4	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0
165°	1813.2	1811.0	1810.2	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1
167.5°	1830.0	1828.0	1827.1	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2
170°	1838.6	1836.5	1835.9	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9
172.5°	1845.0	1843.0	1842.4	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3
175°	1852.0	1849.9	1849.4	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6
177.5°	1853.2	1851.5	1851.2	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331841-830

CATALOG NUMBER: S122RDIW-S865D1440U830-4F0-1E-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°	12.9	11.1	11.2	11.4	12.4	12.9	12.9	13.4	14.3	14.1	15.0
90°	4.6	7.9	11.2	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8
92.5°	26.8	26.5	26.2	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6
95°	77.3	67.5	57.7	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2
97.5°	145.2	117.5	89.8	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4
100°	196.4	155.6	114.8	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2
102.5°	299.4	290.8	282.1	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7
105°	416.4	425.4	434.3	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3
107.5°	528.1	535.4	542.5	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8
110°	600.1	606.3	612.7	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	668.0	673.5	679.1	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4
115°	775.9	780.9	786.0	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3
117.5°	873.3	878.9	884.6	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4
120°	942.8	947.3	951.8	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8
122.5°	1003.1	1007.9	1012.6	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2
125°	1093.7	1097.6	1101.5	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9
127.5°	1177.0	1181.3	1185.5	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1
130°	1230.0	1234.7	1239.5	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0
132.5°	1282.9	1286.9	1291.0	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4
135°	1353.3	1358.1	1362.8	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0
137.5°	1422.4	1425.8	1429.1	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6
140°	1467.5	1470.0	1472.3	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0
142.5°	1505.9	1508.1	1510.2	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2
145°	1564.1	1563.8	1563.5	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0
147.5°	1616.1	1615.0	1613.8	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8
150°	1649.4	1647.4	1645.3	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2
152.5°	1678.2	1675.8	1673.5	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9
155°	1719.9	1717.2	1714.5	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1
157.5°	1753.3	1751.1	1748.8	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7
160°	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4
162.5°	1790.3	1788.5	1786.7	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0
165°	1813.3	1811.5	1809.7	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2
167.5°	1830.4	1828.6	1826.8	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1
170°	1840.1	1838.3	1836.5	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7
172.5°	1846.5	1844.7	1843.0	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1
175°	1854.5	1852.5	1850.4	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1
177.5°	1856.3	1854.6	1852.9	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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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°	14.8	15.1	15.3	15.4	15.6	15.6	15.3
90°	31.3	32.8	33.8	34.4	35.0	35.6	36.2
92.5°	33.5	34.2	34.8	35.2	35.4	35.8	36.2
95°	56.7	58.2	58.8	58.5	58.2	58.0	57.7
97.5°	73.5	74.7	75.5	75.9	76.3	76.6	76.9
100°	83.6	86.0	87.5	88.0	88.6	89.3	89.8
102.5°	87.8	91.0	92.9	93.8	94.5	95.4	96.2
105°	91.6	94.9	97.1	98.3	99.5	100.7	101.9
107.5°	104.4	101.1	100.1	101.2	102.5	103.7	104.8
110°	145.2	115.5	101.1	102.4	103.5	104.7	105.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	265.7	157.0	103.1	104.2	105.1	106.0	107.0
115°	413.3	275.4	195.7	174.3	152.8	131.4	109.9
117.5°	816.1	782.7	730.8	660.3	589.7	519.2	448.8
120°	993.3	996.9	978.5	938.4	898.1	857.9	817.7
122.5°	1052.3	1054.4	1051.6	1043.8	1036.0	1028.2	1020.4
125°	1139.0	1141.0	1142.6	1143.5	1144.3	1145.3	1146.1
127.5°	1220.1	1223.1	1224.8	1224.9	1225.1	1225.3	1225.5
130°	1271.3	1274.5	1276.0	1275.7	1275.4	1275.2	1274.8
132.5°	1320.2	1323.0	1324.3	1324.0	1323.7	1323.4	1323.0
135°	1391.0	1394.0	1395.2	1394.6	1394.0	1393.4	1392.8
137.5°	1456.5	1459.4	1460.4	1459.3	1458.4	1457.4	1456.3
140°	1498.7	1501.4	1501.9	1500.5	1499.0	1497.5	1496.0
142.5°	1537.7	1540.1	1540.6	1539.1	1537.6	1536.2	1534.6
145°	1592.0	1594.2	1594.5	1593.0	1591.5	1590.0	1588.6
147.5°	1639.3	1640.9	1641.0	1639.7	1638.5	1637.2	1636.0
150°	1669.0	1670.8	1670.8	1669.4	1667.9	1666.4	1664.9
152.5°	1695.7	1697.5	1697.4	1695.4	1693.6	1691.6	1689.6
155°	1731.9	1733.7	1733.4	1731.1	1728.7	1726.3	1723.9
157.5°	1762.6	1764.7	1764.5	1762.3	1759.9	1757.6	1755.3
160°	1780.2	1782.0	1781.9	1779.8	1777.6	1775.6	1773.5
162.5°	1797.1	1799.0	1798.7	1796.2	1793.7	1791.1	1788.6
165°	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0
167.5°	1834.2	1836.3	1836.0	1833.3	1830.6	1828.0	1825.2
170°	1842.8	1844.8	1844.6	1841.9	1839.2	1836.5	1833.8
172.5°	1849.2	1851.2	1851.0	1848.3	1845.6	1843.0	1840.2
175°	1856.1	1858.2	1857.8	1854.8	1851.8	1848.9	1845.9
177.5°	1856.5	1858.2	1857.9	1855.8	1853.7	1851.5	1849.4
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6

(END OF REPORT)