

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: P331837-840

Luminaire Tested: **S122RDIW-S865D1240U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331837-840
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-S865D1240U840-4F0-1E-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: 8340.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

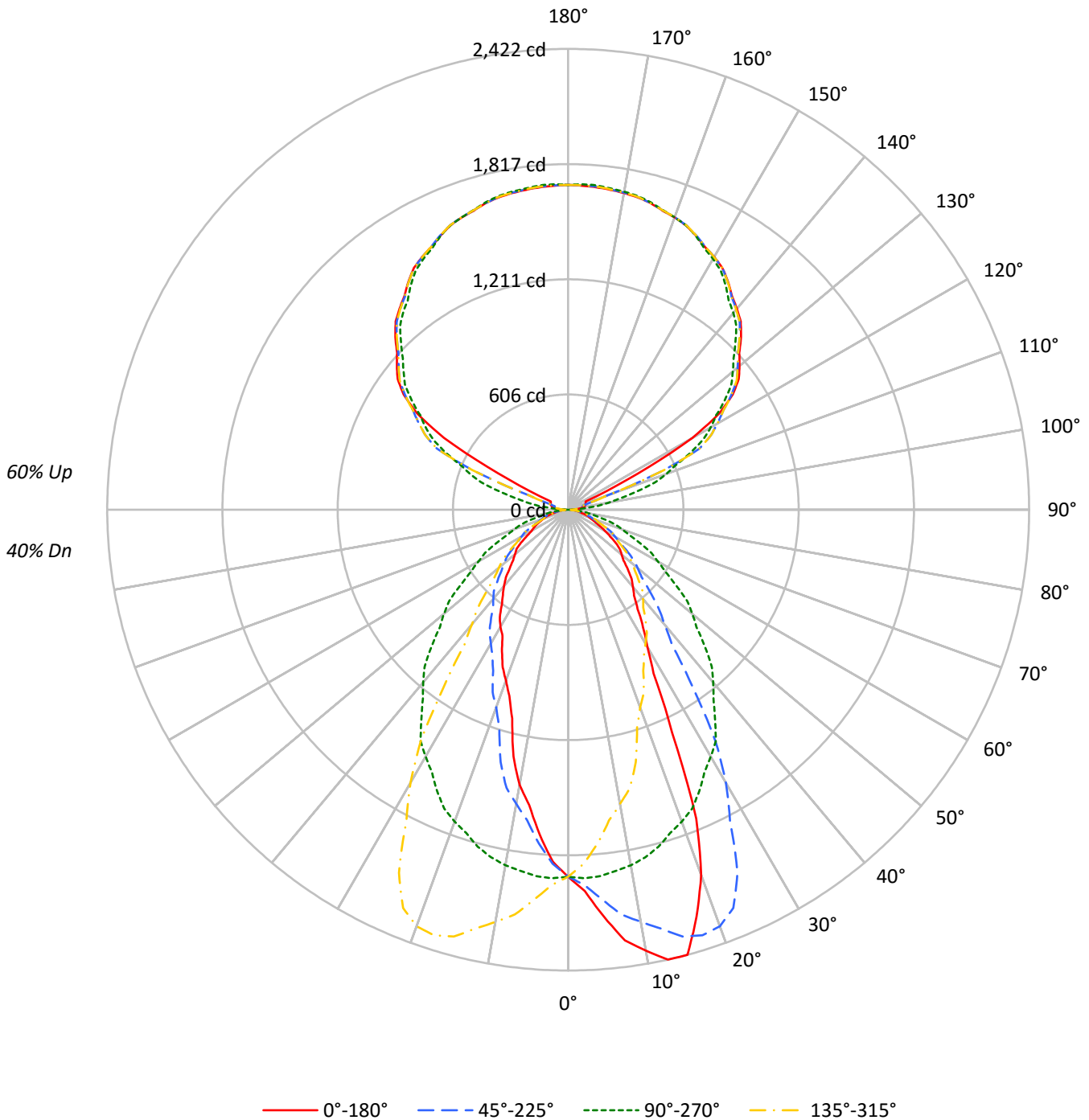
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.2
10°-20°	509.4	6.1
20°-30°	656.4	7.9
30°-40°	623.8	7.5
40°-50°	534.4	6.4
50°-60°	406.9	4.9
60°-70°	257.2	3.1
70°-80°	128.5	1.5
80°-90°	37.6	0.5
90°-100°	56.9	0.7
100°-110°	208.8	2.5
110°-120°	558.2	6.7
120°-130°	921.5	11.0
130°-140°	980.0	11.8
140°-150°	910.9	10.9
150°-160°	732.3	8.8
160°-170°	471.9	5.7
170°-180°	162.4	1.9
0°-30°	1348.5	16.2
0°-40°	1972.3	23.6
0°-60°	2913.6	34.9
0°-90°	3336.9	40.0
90°-120°	824.0	9.9
90°-150°	3636.4	43.6
90°-180°	5003.0	60.0
0°-180°	8340.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	33	1	33	1	33	16
95°	53	80	53	80	53	50
105°	94	376	94	376	94	98
115°	101	710	101	710	101	254
125°	1056	1004	1056	1004	1056	914
135°	1284	1243	1284	1243	1284	989
145°	1464	1442	1464	1442	1464	915
155°	1589	1587	1589	1587	1589	733
165°	1669	1673	1669	1673	1669	471
175°	1701	1711	1701	1711	1701	162
180°	1707	1707	1707	1707	1707	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	15.2	15.7	15.6	15.5	15.3	15.1	14.8	15.1	14.3	14.5	13.6
90°	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5	26.1	24.7	22.5
92.5°	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1	29.4	28.7	27.6
95°	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9	49.6	48.2	46.3
97.5°	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7	65.5	64.5	60.1
100°	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8	72.6	70.4	65.7
102.5°	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1	75.2	72.4	111.4
105°	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4	78.4	75.3	150.3
107.5°	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4	102.4	105.5	195.4
110°	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3	188.7	216.2	295.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0	445.1	545.2	564.9
115°	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0	635.1	762.2	755.4
117.5°	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7	813.4	844.2	839.5
120°	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1	908.8	905.4	900.6
122.5°	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8	965.7	963.8	958.5
125°	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7	1045.8	1043.9	1038.6
127.5°	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6	1118.8	1116.0	1112.1
130°	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5	1165.5	1162.5	1159.4
132.5°	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1	1211.4	1208.9	1205.9
135°	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1	1276.4	1273.6	1271.1
137.5°	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5	1336.9	1334.1	1331.3
140°	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7	1376.1	1373.7	1370.7
142.5°	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7	1412.5	1410.3	1406.7
145°	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2	1463.3	1461.4	1456.7
147.5°	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2	1507.8	1506.3	1501.8
150°	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3	1534.7	1533.1	1528.6
152.5°	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0	1559.4	1557.7	1553.6
155°	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4	1592.8	1591.1	1587.8
157.5°	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6	1620.6	1618.8	1616.5
160°	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9	1637.2	1635.6	1634.0
162.5°	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2	1652.2	1650.4	1649.0
165°	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9	1668.1
167.5°	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3	1686.4	1684.5	1683.7
170°	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3	1694.4	1692.4	1691.8
172.5°	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1	1700.2	1698.3	1697.8
175°	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6	1706.7	1704.8	1704.2
177.5°	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3	1707.8	1706.3	1706.0
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	13.1	13.2	12.8	11.8	11.7	11.6	13.7	15.8	14.2	13.2	12.8
90°	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2	4.2	7.3	10.3
92.5°	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9	24.6	24.4	24.1
95°	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3	71.2	62.2	53.1
97.5°	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4	133.8	108.3	82.8
100°	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6	181.1	143.4	105.8
102.5°	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9	275.9	267.9	260.0
105°	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6	383.7	392.0	400.2
107.5°	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1	486.7	493.3	500.0
110°	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2	553.0	558.8	564.5



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5	615.6	620.7	625.8
115°	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3	715.0	719.6	724.3
117.5°	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5	804.8	809.9	815.2
120°	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7	868.9	872.9	877.1
122.5°	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1	924.4	928.8	933.1
125°	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3	1007.8	1011.5	1015.0
127.5°	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7	1084.6	1088.5	1092.6
130°	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1	1133.5	1137.9	1142.3
132.5°	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5	1182.2	1186.0	1189.7
135°	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7	1247.1	1251.5	1255.9
137.5°	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7	1310.8	1313.8	1317.0
140°	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2	1352.4	1354.6	1356.8
142.5°	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8	1387.8	1389.8	1391.7
145°	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6	1441.4	1441.1	1440.8
147.5°	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3	1489.2	1488.2	1487.1
150°	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0	1520.0	1518.1	1516.1
152.5°	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6	1546.5	1544.3	1542.2
155°	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4	1584.9	1582.5	1579.9
157.5°	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8	1615.7	1613.6	1611.5
160°	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1634.0	1632.2	1630.6
162.5°	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4	1649.7	1648.1	1646.5
165°	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6	1671.0	1669.3	1667.7
167.5°	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5	1686.8	1685.2	1683.5
170°	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4	1695.7	1694.0	1692.4
172.5°	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2	1701.6	1700.0	1698.3
175°	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9	1709.0	1707.1	1705.2
177.5°	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1	1710.6	1709.1	1707.6
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	12.8	12.8	12.2	12.6	13.1	13.0	13.2	13.0	13.2	13.5	13.2
90°	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5	28.8	30.2	31.2
92.5°	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1	30.8	31.5	32.0
95°	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9	52.3	53.6	54.2
97.5°	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7	67.8	68.9	69.6
100°	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8	77.0	79.2	80.6
102.5°	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1	81.0	83.8	85.6
105°	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4	84.4	87.5	89.5
107.5°	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4	96.2	93.2	92.2
110°	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3	133.8	106.3	93.2



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0	244.9	144.7	95.0
115°	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0	380.9	253.8	180.4
117.5°	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7	751.9	721.2	673.4
120°	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1	915.3	918.7	901.8
122.5°	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8	969.8	971.7	969.1
125°	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7	1049.7	1051.6	1052.9
127.5°	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6	1124.4	1127.2	1128.7
130°	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5	1171.5	1174.5	1175.9
132.5°	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1	1216.6	1219.2	1220.3
135°	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1	1281.8	1284.6	1285.7
137.5°	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5	1342.2	1344.9	1345.7
140°	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7	1381.1	1383.6	1384.1
142.5°	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7	1417.0	1419.3	1419.7
145°	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2	1467.1	1469.1	1469.4
147.5°	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2	1510.7	1512.1	1512.2
150°	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3	1538.0	1539.6	1539.7
152.5°	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0	1562.7	1564.4	1564.3
155°	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4	1596.1	1597.7	1597.4
157.5°	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6	1624.4	1626.3	1626.1
160°	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9	1640.5	1642.1	1642.0
162.5°	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2	1656.0	1657.9	1657.6
165°	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6
167.5°	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3	1690.2	1692.1	1691.9
170°	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3	1698.2	1700.1	1699.8
172.5°	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1	1704.0	1706.0	1705.8
175°	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6	1710.5	1712.4	1712.0
177.5°	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3	1710.8	1712.4	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	13.3	12.9	13.5	13.1	13.5	12.9	13.3	13.2	13.5	13.2	13.0
90°	31.7	32.2	32.8	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5
92.5°	32.3	32.7	33.0	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1
95°	53.9	53.6	53.4	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9
97.5°	69.9	70.3	70.6	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7
100°	81.1	81.7	82.2	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8
102.5°	86.3	87.2	88.0	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1
105°	90.6	91.7	92.8	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4
107.5°	93.3	94.4	95.5	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4
110°	94.3	95.4	96.5	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.9	96.8	97.7	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0
115°	160.6	140.9	121.1	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0
117.5°	608.4	543.5	478.6	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7
120°	864.7	827.7	790.6	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1
122.5°	961.9	954.7	947.6	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8
125°	1053.7	1054.6	1055.4	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7
127.5°	1128.8	1129.0	1129.1	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6
130°	1175.6	1175.4	1175.1	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5
132.5°	1220.1	1219.8	1219.5	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1
135°	1285.2	1284.6	1284.0	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1
137.5°	1344.8	1343.9	1343.0	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5
140°	1382.7	1381.4	1380.0	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7
142.5°	1418.4	1416.9	1415.5	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7
145°	1467.9	1466.6	1465.2	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2
147.5°	1511.1	1509.8	1508.7	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2
150°	1538.4	1537.0	1535.6	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3
152.5°	1562.5	1560.6	1558.8	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0
155°	1595.2	1593.1	1590.8	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4
157.5°	1624.0	1621.8	1619.7	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6
160°	1640.1	1638.2	1636.3	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9
162.5°	1655.3	1652.8	1650.5	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2
165°	1674.7	1672.7	1670.8	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7
167.5°	1689.4	1687.0	1684.5	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3
170°	1697.4	1694.9	1692.4	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3
172.5°	1703.2	1700.8	1698.3	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1
175°	1709.3	1706.6	1703.7	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6
177.5°	1710.2	1708.2	1706.3	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	13.2	13.0	13.1	12.6	12.2	12.8	12.8	12.8	13.2	14.2	15.8
90°	26.1	24.7	22.5	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2
92.5°	29.4	28.7	27.6	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9
95°	49.6	48.2	46.3	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3
97.5°	65.5	64.5	60.1	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4
100°	72.6	70.4	65.7	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6
102.5°	75.2	72.4	111.4	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9
105°	78.4	75.3	150.3	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6
107.5°	102.4	105.5	195.4	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1
110°	188.7	216.2	295.5	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	445.1	545.2	564.9	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5
115°	635.1	762.2	755.4	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3
117.5°	813.4	844.2	839.5	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5
120°	908.8	905.4	900.6	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7
122.5°	965.7	963.8	958.5	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1
125°	1045.8	1043.9	1038.6	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3
127.5°	1118.8	1116.0	1112.1	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7
130°	1165.5	1162.5	1159.4	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1
132.5°	1211.4	1208.9	1205.9	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5
135°	1276.4	1273.6	1271.1	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7
137.5°	1336.9	1334.1	1331.3	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7
140°	1376.1	1373.7	1370.7	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2
142.5°	1412.5	1410.3	1406.7	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8
145°	1463.3	1461.4	1456.7	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6
147.5°	1507.8	1506.3	1501.8	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3
150°	1534.7	1533.1	1528.6	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0
152.5°	1559.4	1557.7	1553.6	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6
155°	1592.8	1591.1	1587.8	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4
157.5°	1620.6	1618.8	1616.5	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8
160°	1637.2	1635.6	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6
162.5°	1652.2	1650.4	1649.0	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4
165°	1670.8	1668.9	1668.1	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6
167.5°	1686.4	1684.5	1683.7	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5
170°	1694.4	1692.4	1691.8	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4
172.5°	1700.2	1698.3	1697.8	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2
175°	1706.7	1704.8	1704.2	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9
177.5°	1707.8	1706.3	1706.0	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331837-840

CATALOG NUMBER: S122RDIW-S865D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.7	11.6	11.7	11.8	12.8	13.2	13.1	13.6	14.5	14.3	15.1
90°	4.2	7.3	10.3	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5
92.5°	24.6	24.4	24.1	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1
95°	71.2	62.2	53.1	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9
97.5°	133.8	108.3	82.8	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7
100°	181.1	143.4	105.8	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8
102.5°	275.9	267.9	260.0	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1
105°	383.7	392.0	400.2	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4
107.5°	486.7	493.3	500.0	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4
110°	553.0	558.8	564.5	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	615.6	620.7	625.8	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0
115°	715.0	719.6	724.3	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0
117.5°	804.8	809.9	815.2	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7
120°	868.9	872.9	877.1	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1
122.5°	924.4	928.8	933.1	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8
125°	1007.8	1011.5	1015.0	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7
127.5°	1084.6	1088.5	1092.6	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6
130°	1133.5	1137.9	1142.3	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5
132.5°	1182.2	1186.0	1189.7	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1
135°	1247.1	1251.5	1255.9	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1
137.5°	1310.8	1313.8	1317.0	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5
140°	1352.4	1354.6	1356.8	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7
142.5°	1387.8	1389.8	1391.7	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7
145°	1441.4	1441.1	1440.8	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2
147.5°	1489.2	1488.2	1487.1	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2
150°	1520.0	1518.1	1516.1	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3
152.5°	1546.5	1544.3	1542.2	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0
155°	1584.9	1582.5	1579.9	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4
157.5°	1615.7	1613.6	1611.5	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6
160°	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9
162.5°	1649.7	1648.1	1646.5	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2
165°	1671.0	1669.3	1667.7	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7
167.5°	1686.8	1685.2	1683.5	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3
170°	1695.7	1694.0	1692.4	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3
172.5°	1701.6	1700.0	1698.3	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1
175°	1709.0	1707.1	1705.2	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6
177.5°	1710.6	1709.1	1707.6	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	14.8	15.1	15.3	15.5	15.6	15.7	15.2
90°	28.8	30.2	31.2	31.7	32.2	32.8	33.3
92.5°	30.8	31.5	32.0	32.3	32.7	33.0	33.3
95°	52.3	53.6	54.2	53.9	53.6	53.4	53.1
97.5°	67.8	68.9	69.6	69.9	70.3	70.6	70.9
100°	77.0	79.2	80.6	81.1	81.7	82.2	82.8
102.5°	81.0	83.8	85.6	86.3	87.2	88.0	88.7
105°	84.4	87.5	89.5	90.6	91.7	92.8	93.9
107.5°	96.2	93.2	92.2	93.3	94.4	95.5	96.6
110°	133.8	106.3	93.2	94.3	95.4	96.5	97.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	244.9	144.7	95.0	95.9	96.8	97.7	98.6
115°	380.9	253.8	180.4	160.6	140.9	121.1	101.3
117.5°	751.9	721.2	673.4	608.4	543.5	478.6	413.5
120°	915.3	918.7	901.8	864.7	827.7	790.6	753.6
122.5°	969.8	971.7	969.1	961.9	954.7	947.6	940.3
125°	1049.7	1051.6	1052.9	1053.7	1054.6	1055.4	1056.2
127.5°	1124.4	1127.2	1128.7	1128.8	1129.0	1129.1	1129.3
130°	1171.5	1174.5	1175.9	1175.6	1175.4	1175.1	1174.8
132.5°	1216.6	1219.2	1220.3	1220.1	1219.8	1219.5	1219.3
135°	1281.8	1284.6	1285.7	1285.2	1284.6	1284.0	1283.5
137.5°	1342.2	1344.9	1345.7	1344.8	1343.9	1343.0	1342.0
140°	1381.1	1383.6	1384.1	1382.7	1381.4	1380.0	1378.7
142.5°	1417.0	1419.3	1419.7	1418.4	1416.9	1415.5	1414.2
145°	1467.1	1469.1	1469.4	1467.9	1466.6	1465.2	1463.9
147.5°	1510.7	1512.1	1512.2	1511.1	1509.8	1508.7	1507.6
150°	1538.0	1539.6	1539.7	1538.4	1537.0	1535.6	1534.3
152.5°	1562.7	1564.4	1564.3	1562.5	1560.6	1558.8	1557.0
155°	1596.1	1597.7	1597.4	1595.2	1593.1	1590.8	1588.6
157.5°	1624.4	1626.3	1626.1	1624.0	1621.8	1619.7	1617.5
160°	1640.5	1642.1	1642.0	1640.1	1638.2	1636.3	1634.4
162.5°	1656.0	1657.9	1657.6	1655.3	1652.8	1650.5	1648.2
165°	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9
167.5°	1690.2	1692.1	1691.9	1689.4	1687.0	1684.5	1682.0
170°	1698.2	1700.1	1699.8	1697.4	1694.9	1692.4	1689.9
172.5°	1704.0	1706.0	1705.8	1703.2	1700.8	1698.3	1695.9
175°	1710.5	1712.4	1712.0	1709.3	1706.6	1703.7	1701.0
177.5°	1710.8	1712.4	1712.1	1710.2	1708.2	1706.3	1704.2
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)