

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: P333712-830

Luminaire Tested: **S125RDIW-S1090D1340U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333712-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1090D1340U830-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9073.8 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

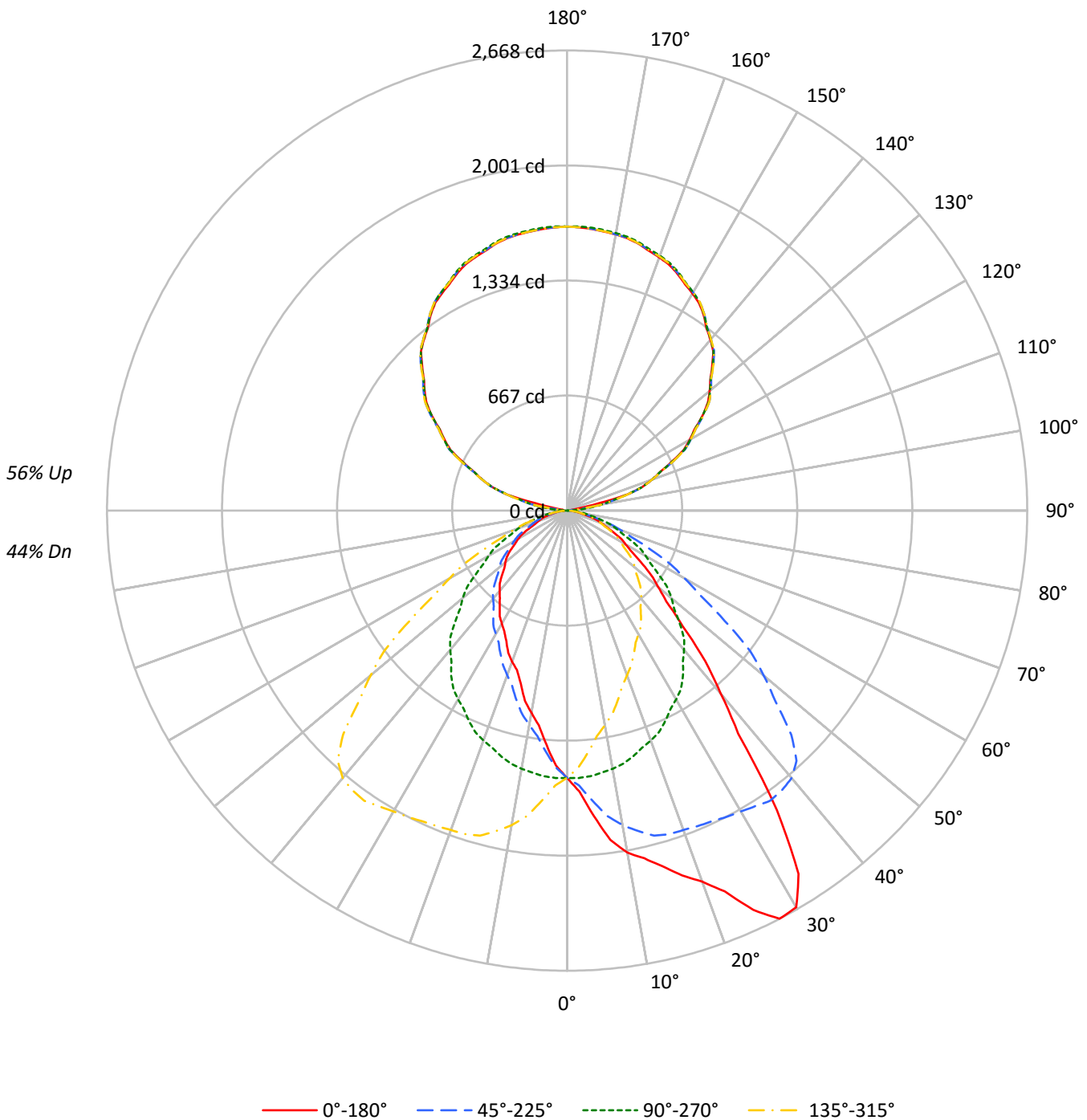
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	88	81	75	71	81	75	70	65	62	59	56	51	49	46	41	39	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	32	30	28	24
5	68	57	49	43	62	52	46	40	44	39	35	37	33	30	29	27	24	21
6	63	51	43	37	57	47	40	35	40	35	31	33	29	26	27	24	22	19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	23	21	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10008	10008	10008	10008
5°	11514	10022	8851	10022
10°	13208	9971	7810	9971
15°	14266	9868	6942	9868
20°	15731	9750	6410	9750
25°	18206	9592	5947	9592
30°	19812	9426	5646	9426
35°	16712	9234	5367	9234
40°	11671	8887	5127	8887
45°	8658	8419	4892	8419
50°	6903	7932	4691	7932
55°	5860	7328	4513	7328
60°	5062	6788	4224	6788
65°	4511	6203	3636	6203
70°	3964	5682	3316	5682
75°	3429	4921	3112	4921
80°	2600	4139	2600	4139
85°	2164	3253	2453	3253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.6
10°-20°	435.5	4.8
20°-30°	690.5	7.6
30°-40°	832.7	9.2
40°-50°	743.6	8.2
50°-60°	570.3	6.3
60°-70°	370.6	4.1
70°-80°	180.2	2.0
80°-90°	46.4	0.5
90°-100°	59.8	0.7
100°-110°	368.7	4.1
110°-120°	668.7	7.4
120°-130°	858.2	9.5
130°-140°	923.1	10.2
140°-150°	866.4	9.5
150°-160°	700.9	7.7
160°-170°	453.3	5.0
170°-180°	156.3	1.7
0°-30°	1274.6	14.0
0°-40°	2107.3	23.2
0°-60°	3421.2	37.7
0°-90°	4018.4	44.3
90°-120°	1097.2	12.1
90°-150°	3744.9	41.3
90°-180°	5055.0	55.7
0°-180°	9073.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1550	1550	1550	1550	1550	
5°	1776	1546	1365	1546	1776	177
15°	2134	1476	1038	1476	2134	611
25°	2555	1346	835	1346	2555	1173
35°	2120	1171	681	1171	2120	1280
45°	948	922	536	922	948	756
55°	520	651	401	651	520	472
65°	295	406	238	406	295	294
75°	137	197	125	197	137	146
85°	29	44	33	44	29	34
90°	29	1	29	1	29	14
95°	26	70	26	70	26	21
105°	362	359	362	359	362	328
115°	669	674	669	674	669	664
125°	958	958	958	958	958	852
135°	1190	1195	1190	1195	1190	918
145°	1382	1385	1382	1385	1382	863
155°	1514	1525	1514	1525	1514	698
165°	1601	1610	1601	1610	1601	452
175°	1639	1646	1639	1646	1639	156
180°	1646	1646	1646	1646	1646	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1630.1	1629.1	1631.2	1625.5	1626.1	1617.4	1617.4	1610.8	1602.1	1595.5	1592.4
5°	1776.1	1777.4	1774.9	1765.4	1759.0	1749.5	1738.6	1719.6	1703.6	1688.4	1676.3
7.5°	1926.6	1927.4	1919.0	1916.1	1900.1	1888.4	1864.3	1838.3	1815.3	1786.1	1763.7
10°	2014.1	2013.5	2004.5	1997.5	1983.6	1965.8	1942.2	1911.7	1883.0	1851.2	1820.7
12.5°	2065.0	2063.3	2060.5	2052.0	2039.0	2023.3	2003.3	1973.2	1938.0	1903.2	1867.6
15°	2133.7	2129.2	2121.0	2110.2	2091.7	2073.2	2051.0	2024.3	1990.6	1951.1	1918.1
17.5°	2218.7	2218.8	2206.1	2191.0	2166.0	2133.4	2099.0	2056.0	2010.2	1966.8	1931.6
20°	2288.9	2287.0	2274.3	2245.0	2216.4	2175.7	2136.3	2083.4	2027.4	1970.9	1926.9
22.5°	2389.7	2384.7	2371.4	2333.1	2288.7	2236.3	2176.0	2111.4	2043.7	1979.4	1921.8
25°	2554.9	2551.0	2524.9	2480.4	2418.1	2337.2	2258.3	2169.9	2072.7	1988.0	1918.1
27.5°	2667.8	2663.6	2644.3	2607.3	2549.8	2464.7	2358.0	2239.8	2118.3	2001.9	1901.0
30°	2656.7	2666.2	2663.6	2646.5	2603.2	2526.9	2428.3	2295.3	2150.9	2014.1	1893.9
32.5°	2496.8	2505.4	2527.7	2561.5	2564.0	2533.5	2459.8	2337.0	2187.5	2031.9	1888.3
35°	2119.7	2131.2	2174.4	2242.5	2331.6	2405.9	2421.2	2355.0	2220.8	2053.5	1879.9
37.5°	1629.6	1692.1	1728.6	1800.3	1934.9	2071.7	2203.4	2251.9	2194.7	2044.7	1866.2
40°	1384.3	1399.6	1464.4	1545.2	1658.5	1801.0	1988.7	2124.1	2128.6	2024.3	1844.8
42.5°	1184.8	1204.1	1248.7	1313.2	1410.1	1552.7	1746.4	1925.1	2008.0	1968.3	1816.8
45°	947.9	962.5	994.9	1044.6	1119.0	1236.7	1403.4	1610.1	1774.2	1838.5	1741.8
47.5°	778.6	786.6	814.8	852.6	907.7	993.4	1122.5	1301.9	1498.8	1636.8	1623.2
50°	687.0	696.0	717.6	746.2	792.7	865.2	968.3	1117.8	1320.7	1489.2	1523.0
52.5°	615.8	623.2	636.7	663.7	702.1	757.8	841.0	976.3	1158.9	1338.1	1416.1
55°	520.4	525.5	536.3	551.6	582.1	622.2	694.1	787.6	935.2	1115.8	1230.3
57.5°	441.8	444.3	451.2	465.3	486.4	515.7	567.6	646.9	752.7	915.4	1041.8
60°	391.9	394.5	403.3	412.8	429.4	456.1	496.8	552.1	653.9	788.2	916.1
62.5°	352.1	353.7	357.5	367.0	381.5	402.2	434.2	479.4	560.3	678.3	799.0
65°	295.2	295.8	297.1	304.7	313.6	328.9	349.9	381.7	442.8	531.9	638.7
67.5°	240.4	241.4	245.8	248.5	257.8	265.8	278.1	302.5	345.4	405.5	488.6
70°	209.9	209.3	213.8	217.0	220.1	229.7	237.9	257.7	284.4	330.2	399.5
72.5°	181.4	179.7	181.7	182.9	187.0	193.5	201.8	213.9	234.5	266.1	319.1
75°	137.4	138.1	138.1	139.3	142.5	145.1	147.6	153.9	165.4	186.4	215.0
77.5°	96.4	95.4	98.1	98.5	100.4	103.2	105.4	107.9	112.6	121.2	136.0
80°	69.9	69.9	70.6	72.5	71.9	73.1	76.3	78.9	84.6	89.7	94.8
82.5°	53.7	53.2	53.8	54.2	54.1	55.3	56.5	57.0	59.2	61.7	65.2
85°	29.2	29.2	29.9	29.9	30.5	30.5	31.2	31.2	31.2	31.8	32.4
87.5°	17.1	16.4	15.7	15.6	15.9	16.7	15.9	15.2	14.9	14.6	14.7
90°	29.3	28.5	27.6	26.9	26.0	25.0	23.6	22.2	20.9	19.5	17.6
92.5°	27.3	27.0	26.6	26.2	25.8	25.0	23.6	22.2	20.9	19.5	17.8
95°	25.6	25.6	25.6	25.6	25.6	25.0	23.6	22.2	20.9	19.5	29.8
97.5°	25.6	25.6	25.6	25.6	25.6	29.4	37.1	44.8	52.4	60.0	80.4
100°	25.6	26.7	27.8	28.8	30.0	50.7	91.1	131.5	171.9	212.4	211.2
102.5°	153.5	171.9	190.4	208.9	227.2	240.3	248.0	255.6	263.3	270.9	270.2
105°	362.4	362.7	363.0	363.3	363.5	363.6	363.6	363.6	363.6	363.6	363.6
107.5°	456.9	457.7	458.5	459.3	460.1	460.5	460.5	460.4	460.3	460.3	459.8
110°	522.4	522.1	521.8	521.5	521.2	521.5	522.4	523.1	524.0	524.7	524.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	580.9	581.3	581.6	582.0	582.4	583.2	584.2	585.1	586.2	587.2	586.9
115°	668.7	670.3	672.0	673.6	675.2	676.7	677.7	678.8	679.9	681.0	680.7
117.5°	762.5	763.2	763.9	764.6	765.3	766.4	767.8	769.2	770.6	772.0	771.0
120°	820.1	821.4	822.7	824.2	825.5	826.4	827.0	827.6	828.1	828.6	827.8
122.5°	874.8	876.3	877.9	879.5	881.0	882.1	882.6	883.2	883.7	884.3	883.9
125°	958.0	958.8	959.6	960.5	961.2	962.1	963.3	964.3	965.4	966.5	966.5
127.5°	1028.0	1030.0	1032.1	1034.1	1036.0	1037.4	1037.9	1038.6	1039.2	1039.7	1039.9
130°	1078.8	1080.2	1081.5	1082.9	1084.2	1085.3	1086.1	1086.9	1087.8	1088.5	1088.3
132.5°	1125.7	1127.0	1128.4	1129.7	1131.1	1131.8	1132.0	1132.2	1132.4	1132.5	1133.1
135°	1189.9	1191.5	1193.1	1194.8	1196.4	1197.4	1198.0	1198.5	1199.1	1199.6	1200.1
137.5°	1254.2	1255.7	1257.1	1258.5	1259.9	1260.6	1260.5	1260.4	1260.3	1260.2	1260.7
140°	1292.3	1294.0	1295.6	1297.2	1298.8	1299.4	1298.8	1298.4	1297.8	1297.2	1297.5
142.5°	1328.5	1330.1	1331.7	1333.3	1335.0	1335.8	1335.7	1335.5	1335.4	1335.3	1334.9
145°	1381.5	1383.1	1384.7	1386.3	1388.0	1388.6	1388.4	1388.1	1387.8	1387.5	1387.5
147.5°	1425.1	1427.1	1429.0	1431.0	1432.9	1433.8	1433.4	1433.1	1432.8	1432.5	1432.1
150°	1453.4	1455.6	1457.7	1459.9	1462.1	1462.9	1462.4	1461.9	1461.3	1460.8	1460.2
152.5°	1479.8	1481.8	1483.8	1485.6	1487.6	1488.3	1487.8	1487.2	1486.7	1486.1	1485.6
155°	1514.5	1516.6	1518.8	1521.0	1523.1	1523.8	1523.0	1522.2	1521.4	1520.6	1520.0
157.5°	1543.5	1545.7	1547.8	1550.0	1552.2	1552.8	1552.0	1551.1	1550.2	1549.4	1549.4
160°	1562.1	1564.2	1566.4	1568.6	1570.7	1571.3	1570.2	1569.1	1568.0	1567.0	1566.7
162.5°	1578.7	1581.0	1583.4	1585.8	1588.2	1588.7	1587.1	1585.5	1584.0	1582.5	1582.2
165°	1601.1	1603.3	1605.4	1607.6	1609.8	1610.1	1608.4	1606.8	1605.1	1603.5	1603.3
167.5°	1616.7	1619.2	1621.6	1624.0	1626.5	1626.7	1624.8	1622.9	1620.9	1618.9	1618.6
170°	1625.5	1628.0	1630.4	1632.9	1635.3	1635.4	1633.2	1631.1	1628.9	1626.7	1626.5
172.5°	1631.4	1633.8	1636.3	1638.7	1641.2	1641.3	1639.5	1637.5	1635.5	1633.5	1633.0
175°	1638.9	1641.3	1643.8	1646.2	1648.7	1648.8	1646.6	1644.5	1642.3	1640.1	1639.9
177.5°	1643.3	1645.0	1646.8	1648.5	1650.3	1650.4	1648.9	1647.4	1645.9	1644.3	1644.1
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1592.4	1588.8	1582.2	1576.1	1568.5	1561.9	1557.4	1551.7	1544.6	1536.0	1528.8
5°	1662.9	1648.9	1630.5	1614.6	1594.2	1578.3	1561.8	1545.9	1529.9	1509.6	1491.8
7.5°	1741.1	1712.1	1684.0	1648.7	1616.6	1588.0	1560.5	1532.7	1505.4	1476.5	1448.7
10°	1788.9	1753.9	1715.1	1670.6	1629.8	1591.0	1555.4	1520.4	1483.6	1451.0	1416.1
12.5°	1833.7	1788.5	1744.1	1687.9	1639.0	1591.6	1546.2	1502.6	1463.2	1421.1	1383.6
15°	1874.2	1829.6	1780.0	1711.3	1643.2	1585.9	1532.5	1475.9	1426.9	1379.8	1337.8
17.5°	1889.8	1843.0	1785.5	1719.4	1645.0	1573.0	1504.1	1442.1	1384.4	1329.6	1282.3
20°	1883.7	1838.5	1779.3	1716.4	1636.8	1561.8	1487.3	1418.6	1354.4	1296.5	1246.2
22.5°	1868.9	1822.2	1765.1	1698.6	1623.1	1543.4	1464.0	1390.6	1323.3	1263.4	1208.6
25°	1846.8	1783.2	1724.7	1659.7	1587.9	1509.0	1426.9	1346.1	1274.2	1213.1	1153.4
27.5°	1823.7	1744.4	1669.9	1605.4	1529.5	1459.1	1380.0	1297.1	1221.5	1159.3	1098.0
30°	1802.9	1713.8	1631.7	1558.6	1486.7	1419.9	1344.8	1264.0	1186.5	1122.2	1059.9
32.5°	1776.9	1682.2	1592.0	1507.7	1438.3	1372.1	1304.1	1226.9	1151.3	1085.1	1021.7
35°	1744.4	1623.5	1525.5	1435.8	1358.9	1294.6	1233.5	1171.2	1095.5	1026.8	965.1
37.5°	1701.6	1564.4	1451.0	1353.4	1272.1	1207.7	1159.4	1102.5	1033.4	967.6	910.3
40°	1675.7	1521.7	1397.6	1301.0	1215.7	1147.6	1102.5	1054.1	991.2	929.4	872.1
42.5°	1641.1	1482.5	1343.7	1242.9	1157.2	1091.7	1045.9	1003.7	950.9	892.8	831.4
45°	1573.2	1406.6	1260.8	1152.7	1066.2	1001.9	959.3	921.8	881.7	828.3	774.9
47.5°	1484.9	1327.3	1174.9	1056.8	972.0	912.4	871.0	841.4	812.8	767.3	715.4
50°	1414.2	1262.2	1113.2	998.8	908.4	851.8	813.0	789.5	763.4	722.1	678.8
52.5°	1330.7	1195.0	1049.1	932.1	846.9	793.8	756.5	733.0	711.5	677.8	636.5
55°	1199.2	1080.2	946.6	840.4	762.1	708.7	673.1	650.8	638.1	609.4	577.0
57.5°	1047.4	962.1	844.3	741.9	672.7	619.9	593.8	574.9	560.4	540.3	517.4
60°	941.5	881.7	776.1	678.8	615.2	564.9	541.4	525.5	512.1	494.9	477.1
62.5°	834.2	790.6	698.8	615.2	556.7	514.5	492.5	478.2	462.8	451.2	433.9
65°	690.2	651.4	587.8	522.3	468.3	434.5	418.6	405.9	396.3	383.6	371.6
67.5°	537.0	521.1	477.2	432.1	393.2	363.3	349.5	340.6	329.1	321.5	313.2
70°	442.8	435.2	404.0	374.1	337.8	317.4	304.7	300.9	286.9	279.3	273.5
72.5°	359.3	355.7	337.8	317.1	291.5	273.7	261.9	257.7	248.7	242.6	238.9
75°	246.2	247.5	244.3	230.9	221.4	209.9	199.7	197.2	190.9	185.8	182.6
77.5°	155.7	162.2	162.5	161.8	158.1	151.0	146.8	145.0	138.6	136.8	136.0
80°	106.9	113.9	120.3	119.6	118.3	116.4	113.2	111.3	108.1	106.2	105.0
82.5°	71.3	77.8	83.0	86.5	86.2	84.4	82.2	81.3	80.7	79.3	79.0
85°	33.7	35.0	36.9	41.4	44.5	45.1	44.5	43.9	41.9	42.6	43.3
87.5°	14.9	14.5	14.6	14.2	13.3	15.4	16.5	16.5	15.9	15.4	14.8
90°	15.7	13.9	12.0	9.9	7.7	5.6	3.4	1.2	3.4	5.6	7.7
92.5°	16.1	14.5	12.8	12.7	14.2	15.7	17.2	18.8	17.2	15.7	14.2
95°	40.2	50.4	60.7	66.3	67.1	68.0	68.7	69.6	68.7	68.0	67.1
97.5°	100.9	121.2	141.6	151.1	149.6	148.2	146.7	145.2	146.7	148.2	149.6
100°	210.2	209.1	208.0	207.1	206.2	205.4	204.6	203.8	204.6	205.4	206.2
102.5°	269.7	269.0	268.3	267.5	266.5	265.4	264.4	263.3	264.4	265.4	266.5
105°	363.6	363.6	363.6	363.2	362.0	361.0	359.9	358.8	359.9	361.0	362.0
107.5°	459.2	458.7	458.2	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.9
110°	523.7	523.1	522.5	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	586.5	586.3	586.0	585.4	584.8	584.2	583.5	582.9	583.5	584.2	584.8
115°	680.4	680.1	679.9	679.1	677.7	676.4	675.0	673.6	675.0	676.4	677.7
117.5°	770.0	768.9	767.9	767.4	767.4	767.5	767.5	767.6	767.5	767.5	767.4
120°	827.0	826.1	825.4	825.1	825.4	825.7	826.0	826.1	826.0	825.7	825.4
122.5°	883.5	883.2	882.8	882.0	881.0	880.0	878.9	877.9	878.9	880.0	881.0
125°	966.5	966.5	966.5	965.5	963.7	961.8	959.9	958.0	959.9	961.8	963.7
127.5°	1040.1	1040.2	1040.4	1039.8	1038.4	1037.1	1035.8	1034.3	1035.8	1037.1	1038.4
130°	1088.0	1087.8	1087.5	1086.7	1085.3	1083.9	1082.6	1081.2	1082.6	1083.9	1085.3
132.5°	1133.7	1134.3	1134.9	1134.3	1132.8	1131.2	1129.6	1128.1	1129.6	1131.2	1132.8
135°	1200.7	1201.3	1201.7	1201.3	1199.6	1198.0	1196.4	1194.8	1196.4	1198.0	1199.6
137.5°	1261.1	1261.6	1262.1	1261.6	1260.2	1258.8	1257.4	1256.0	1257.4	1258.8	1260.2
140°	1297.8	1298.1	1298.4	1298.2	1297.6	1297.1	1296.6	1296.0	1296.6	1297.1	1297.6
142.5°	1334.5	1334.2	1333.8	1333.4	1333.1	1332.8	1332.5	1332.1	1332.5	1332.8	1333.1
145°	1387.5	1387.5	1387.5	1387.2	1386.8	1386.2	1385.6	1385.1	1385.6	1386.2	1386.8
147.5°	1431.8	1431.4	1431.2	1431.1	1431.2	1431.3	1431.3	1431.4	1431.3	1431.3	1431.2
150°	1459.7	1459.2	1458.6	1458.6	1459.2	1459.7	1460.2	1460.8	1460.2	1459.7	1459.2
152.5°	1485.1	1484.5	1483.9	1484.3	1485.5	1486.7	1487.9	1489.0	1487.9	1486.7	1485.5
155°	1519.5	1518.9	1518.4	1518.9	1520.6	1522.2	1523.8	1525.4	1523.8	1522.2	1520.6
157.5°	1549.3	1549.2	1549.2	1549.6	1550.6	1551.5	1552.6	1553.5	1552.6	1551.5	1550.6
160°	1566.4	1566.1	1565.8	1566.5	1568.1	1569.8	1571.4	1573.0	1571.4	1569.8	1568.1
162.5°	1582.1	1581.8	1581.5	1582.2	1583.8	1585.4	1587.1	1588.7	1587.1	1585.4	1583.8
165°	1603.0	1602.7	1602.4	1603.2	1604.8	1606.4	1608.0	1609.7	1608.0	1606.4	1604.8
167.5°	1618.3	1618.1	1617.9	1618.5	1620.2	1621.9	1623.6	1625.2	1623.6	1621.9	1620.2
170°	1626.2	1625.9	1625.6	1626.5	1628.3	1630.2	1632.2	1634.1	1632.2	1630.2	1628.3
172.5°	1632.6	1632.1	1631.6	1632.3	1634.2	1636.2	1638.0	1639.9	1638.0	1636.2	1634.2
175°	1639.6	1639.4	1639.1	1639.7	1641.3	1643.0	1644.6	1646.2	1644.6	1643.0	1641.3
177.5°	1643.9	1643.7	1643.4	1644.0	1645.3	1646.6	1647.8	1649.2	1647.8	1646.6	1645.3
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1523.7	1516.6	1511.6	1501.4	1494.2	1491.2	1485.5	1484.0	1489.6	1485.5	1485.1
5°	1478.5	1460.0	1445.4	1430.7	1414.9	1404.7	1389.4	1386.9	1383.0	1377.2	1376.0
7.5°	1424.1	1400.1	1381.2	1357.1	1336.1	1319.2	1300.0	1291.0	1286.1	1278.7	1268.8
10°	1387.4	1358.9	1333.4	1309.2	1283.2	1262.2	1243.0	1228.4	1218.9	1209.9	1206.2
12.5°	1351.3	1322.2	1289.6	1260.4	1231.2	1207.7	1186.6	1177.0	1166.5	1156.0	1147.2
15°	1295.2	1256.4	1220.8	1187.0	1162.2	1136.8	1116.4	1102.5	1086.6	1082.1	1065.0
17.5°	1235.7	1197.6	1155.9	1120.4	1091.7	1063.7	1041.2	1025.4	1013.4	997.0	989.1
20°	1198.5	1153.4	1112.7	1080.2	1048.4	1015.3	992.4	979.0	967.6	954.2	947.9
22.5°	1158.9	1114.7	1073.0	1034.9	1002.6	970.1	953.8	939.9	926.9	914.5	906.2
25°	1100.5	1056.0	1012.1	972.7	939.0	915.4	896.4	880.4	873.5	861.4	852.4
27.5°	1042.9	995.6	950.1	910.7	884.3	861.0	845.4	832.7	820.1	809.5	801.8
30°	1005.8	957.4	907.8	876.7	848.7	826.3	809.2	797.1	787.6	778.1	772.3
32.5°	968.7	918.8	874.7	841.0	814.5	795.3	777.6	766.1	756.0	745.5	738.7
35°	909.1	858.2	822.6	789.5	763.4	745.6	733.5	717.0	708.7	701.1	694.1
37.5°	853.8	806.4	767.9	738.9	716.1	698.5	682.9	673.9	663.7	656.9	651.0
40°	813.0	769.8	734.8	704.3	687.7	668.0	653.4	641.9	634.2	625.4	619.0
42.5°	776.4	736.1	702.2	674.7	654.1	637.4	623.3	611.9	602.2	595.9	590.5
45°	724.6	684.5	651.4	625.9	606.9	591.0	576.4	570.6	557.9	550.3	547.7
47.5°	671.0	635.2	603.2	579.8	560.2	545.2	531.4	519.7	512.7	505.2	501.1
50°	634.9	600.5	570.6	547.7	528.7	512.1	499.4	491.7	482.2	475.2	470.1
52.5°	598.8	566.9	537.1	515.2	498.6	482.1	467.9	460.2	451.2	446.7	443.2
55°	547.1	513.4	488.0	466.3	449.1	433.9	420.5	412.8	407.2	402.7	401.4
57.5°	488.6	461.8	438.2	418.7	400.9	386.5	374.8	367.6	362.5	361.8	358.1
60°	450.4	426.2	404.6	383.6	368.3	355.0	344.8	336.5	331.4	330.8	329.5
62.5°	412.3	389.1	369.0	350.5	336.8	324.0	314.2	305.0	301.9	298.8	296.0
65°	355.6	334.6	318.1	303.4	288.8	278.0	268.4	262.8	255.7	251.9	245.0
67.5°	300.0	283.7	267.9	255.5	244.0	233.8	225.8	217.4	212.6	209.5	204.4
70°	263.3	250.6	234.8	221.4	212.4	204.2	197.8	188.3	185.1	182.6	180.0
72.5°	228.8	217.5	204.2	193.4	184.5	176.7	169.4	164.9	161.7	159.2	157.7
75°	180.0	169.2	157.8	150.1	143.7	137.4	133.6	130.4	129.1	128.5	125.9
77.5°	132.2	126.5	117.3	111.2	107.0	104.4	101.0	99.3	99.2	96.4	95.6
80°	101.1	97.9	90.3	87.8	84.6	82.1	80.1	77.0	73.8	72.5	70.6
82.5°	75.2	72.0	69.0	64.8	62.2	60.7	58.8	57.6	58.1	56.3	55.3
85°	40.1	36.9	35.6	35.0	33.7	35.0	34.3	33.7	33.1	32.4	33.1
87.5°	14.7	15.1	15.0	16.4	15.3	16.1	16.4	16.1	16.4	16.7	16.4
90°	9.9	12.0	13.9	15.7	17.6	19.5	20.9	22.2	23.6	25.0	26.0
92.5°	12.7	12.8	14.5	16.1	17.8	19.5	20.9	22.2	23.6	25.0	25.8
95°	66.3	60.7	50.4	40.2	29.8	19.5	20.9	22.2	23.6	25.0	25.6
97.5°	151.1	141.6	121.2	100.9	80.4	60.0	52.4	44.8	37.1	29.4	25.6
100°	207.1	208.0	209.1	210.2	211.2	212.4	171.9	131.5	91.1	50.7	30.0
102.5°	267.5	268.3	269.0	269.7	270.2	270.9	263.3	255.6	248.0	240.3	227.2
105°	363.2	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.5
107.5°	457.9	458.2	458.7	459.2	459.8	460.3	460.3	460.4	460.5	460.5	460.1
110°	522.4	522.5	523.1	523.7	524.2	524.7	524.0	523.1	522.4	521.5	521.2



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	585.4	586.0	586.3	586.5	586.9	587.2	586.2	585.1	584.2	583.2	582.4
115°	679.1	679.9	680.1	680.4	680.7	681.0	679.9	678.8	677.7	676.7	675.2
117.5°	767.4	767.9	768.9	770.0	771.0	772.0	770.6	769.2	767.8	766.4	765.3
120°	825.1	825.4	826.1	827.0	827.8	828.6	828.1	827.6	827.0	826.4	825.5
122.5°	882.0	882.8	883.2	883.5	883.9	884.3	883.7	883.2	882.6	882.1	881.0
125°	965.5	966.5	966.5	966.5	966.5	966.5	965.4	964.3	963.3	962.1	961.2
127.5°	1039.8	1040.4	1040.2	1040.1	1039.9	1039.7	1039.2	1038.6	1037.9	1037.4	1036.0
130°	1086.7	1087.5	1087.8	1088.0	1088.3	1088.5	1087.8	1086.9	1086.1	1085.3	1084.2
132.5°	1134.3	1134.9	1134.3	1133.7	1133.1	1132.5	1132.4	1132.2	1132.0	1131.8	1131.1
135°	1201.3	1201.7	1201.3	1200.7	1200.1	1199.6	1199.1	1198.5	1198.0	1197.4	1196.4
137.5°	1261.6	1262.1	1261.6	1261.1	1260.7	1260.2	1260.3	1260.4	1260.5	1260.6	1259.9
140°	1298.2	1298.4	1298.1	1297.8	1297.5	1297.2	1297.8	1298.4	1298.8	1299.4	1298.8
142.5°	1333.4	1333.8	1334.2	1334.5	1334.9	1335.3	1335.4	1335.5	1335.7	1335.8	1335.0
145°	1387.2	1387.5	1387.5	1387.5	1387.5	1387.5	1387.8	1388.1	1388.4	1388.6	1388.0
147.5°	1431.1	1431.2	1431.4	1431.8	1432.1	1432.5	1432.8	1433.1	1433.4	1433.8	1432.9
150°	1458.6	1458.6	1459.2	1459.7	1460.2	1460.8	1461.3	1461.9	1462.4	1462.9	1462.1
152.5°	1484.3	1483.9	1484.5	1485.1	1485.6	1486.1	1486.7	1487.2	1487.8	1488.3	1487.6
155°	1518.9	1518.4	1518.9	1519.5	1520.0	1520.6	1521.4	1522.2	1523.0	1523.8	1523.1
157.5°	1549.6	1549.2	1549.2	1549.3	1549.4	1549.4	1550.2	1551.1	1552.0	1552.8	1552.2
160°	1566.5	1565.8	1566.1	1566.4	1566.7	1567.0	1568.0	1569.1	1570.2	1571.3	1570.7
162.5°	1582.2	1581.5	1581.8	1582.1	1582.2	1582.5	1584.0	1585.5	1587.1	1588.7	1588.2
165°	1603.2	1602.4	1602.7	1603.0	1603.3	1603.5	1605.1	1606.8	1608.4	1610.1	1609.8
167.5°	1618.5	1617.9	1618.1	1618.3	1618.6	1618.9	1620.9	1622.9	1624.8	1626.7	1626.5
170°	1626.5	1625.6	1625.9	1626.2	1626.5	1626.7	1628.9	1631.1	1633.2	1635.4	1635.3
172.5°	1632.3	1631.6	1632.1	1632.6	1633.0	1633.5	1635.5	1637.5	1639.5	1641.3	1641.2
175°	1639.7	1639.1	1639.4	1639.6	1639.9	1640.1	1642.3	1644.5	1646.6	1648.8	1648.7
177.5°	1644.0	1643.4	1643.7	1643.9	1644.1	1644.3	1645.9	1647.4	1648.9	1650.4	1650.3
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1484.5	1478.9	1477.4	1479.4	1477.4	1478.9	1484.5	1485.1	1485.5	1489.6	1484.0
5°	1369.7	1363.3	1366.5	1365.2	1366.5	1363.3	1369.7	1376.0	1377.2	1383.0	1386.9
7.5°	1268.7	1260.7	1252.4	1255.0	1252.4	1260.7	1268.7	1268.8	1278.7	1286.1	1291.0
10°	1197.9	1191.6	1187.7	1190.9	1187.7	1191.6	1197.9	1206.2	1209.9	1218.9	1228.4
12.5°	1138.3	1134.5	1131.2	1129.8	1131.2	1134.5	1138.3	1147.2	1156.0	1166.5	1177.0
15°	1057.3	1049.7	1046.5	1038.2	1046.5	1049.7	1057.3	1065.0	1082.1	1086.6	1102.5
17.5°	982.6	980.1	971.8	968.3	971.8	980.1	982.6	989.1	997.0	1013.4	1025.4
20°	938.3	935.8	927.6	932.6	927.6	935.8	938.3	947.9	954.2	967.6	979.0
22.5°	901.7	896.1	893.4	891.9	893.4	896.1	901.7	906.2	914.5	926.9	939.9
25°	849.9	841.6	838.5	834.6	838.5	841.6	849.9	852.4	861.4	873.5	880.4
27.5°	798.2	793.8	789.6	788.6	789.6	793.8	798.2	801.8	809.5	820.1	832.7
30°	764.7	760.3	757.1	757.1	757.1	760.3	764.7	772.3	778.1	787.6	797.1
32.5°	734.6	731.2	728.0	727.5	728.0	731.2	734.6	738.7	745.5	756.0	766.1
35°	690.9	685.8	684.5	680.7	684.5	685.8	690.9	694.1	701.1	708.7	717.0
37.5°	645.5	641.2	641.1	640.7	641.1	641.2	645.5	651.0	656.9	663.7	673.9
40°	616.4	613.2	612.7	608.1	612.7	613.2	616.4	619.0	625.4	634.2	641.9
42.5°	585.4	583.7	581.5	579.7	581.5	583.7	585.4	590.5	595.9	602.2	611.9
45°	543.3	538.9	538.9	535.6	538.9	538.9	543.3	547.7	550.3	557.9	570.6
47.5°	499.7	496.3	496.7	493.4	496.7	496.3	499.7	501.1	505.2	512.7	519.7
50°	470.8	468.8	468.3	466.9	468.3	468.8	470.8	470.1	475.2	482.2	491.7
52.5°	441.8	440.8	443.3	440.5	443.3	440.8	441.8	443.2	446.7	451.2	460.2
55°	402.7	400.8	404.6	400.8	404.6	400.8	402.7	401.4	402.7	407.2	412.8
57.5°	357.8	356.0	359.4	357.5	359.4	356.0	357.8	358.1	361.8	362.5	367.6
60°	328.3	324.4	326.3	327.0	326.3	324.4	328.3	329.5	330.8	331.4	336.5
62.5°	293.1	290.9	292.3	289.4	292.3	290.9	293.1	296.0	298.8	301.9	305.0
65°	243.6	241.8	239.2	237.9	239.2	241.8	243.6	245.0	251.9	255.7	262.8
67.5°	204.7	200.1	200.0	201.0	200.0	200.1	204.7	204.4	209.5	212.6	217.4
70°	176.3	176.3	175.6	175.6	175.6	176.3	176.3	180.0	182.6	185.1	188.3
72.5°	156.4	155.9	154.7	154.2	154.7	155.9	156.4	157.7	159.2	161.7	164.9
75°	125.9	126.6	125.4	124.7	125.4	126.6	125.9	125.9	128.5	129.1	130.4
77.5°	93.0	90.3	91.7	90.3	91.7	90.3	93.0	95.6	96.4	99.2	99.3
80°	70.6	69.9	71.9	69.9	71.9	69.9	70.6	70.6	72.5	73.8	77.0
82.5°	55.9	55.2	56.1	54.7	56.1	55.2	55.9	55.3	56.3	58.1	57.6
85°	33.7	33.1	32.4	33.1	32.4	33.1	33.7	33.1	32.4	33.1	33.7
87.5°	17.1	16.7	16.9	17.1	16.9	16.7	17.1	16.4	16.7	16.4	16.1
90°	26.9	27.6	28.5	29.3	28.5	27.6	26.9	26.0	25.0	23.6	22.2
92.5°	26.2	26.6	27.0	27.3	27.0	26.6	26.2	25.8	25.0	23.6	22.2
95°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.0	23.6	22.2
97.5°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	29.4	37.1	44.8
100°	28.8	27.8	26.7	25.6	26.7	27.8	28.8	30.0	50.7	91.1	131.5
102.5°	208.9	190.4	171.9	153.5	171.9	190.4	208.9	227.2	240.3	248.0	255.6
105°	363.3	363.0	362.7	362.4	362.7	363.0	363.3	363.5	363.6	363.6	363.6
107.5°	459.3	458.5	457.7	456.9	457.7	458.5	459.3	460.1	460.5	460.5	460.4
110°	521.5	521.8	522.1	522.4	522.1	521.8	521.5	521.2	521.5	522.4	523.1



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.0	581.6	581.3	580.9	581.3	581.6	582.0	582.4	583.2	584.2	585.1
115°	673.6	672.0	670.3	668.7	670.3	672.0	673.6	675.2	676.7	677.7	678.8
117.5°	764.6	763.9	763.2	762.5	763.2	763.9	764.6	765.3	766.4	767.8	769.2
120°	824.2	822.7	821.4	820.1	821.4	822.7	824.2	825.5	826.4	827.0	827.6
122.5°	879.5	877.9	876.3	874.8	876.3	877.9	879.5	881.0	882.1	882.6	883.2
125°	960.5	959.6	958.8	958.0	958.8	959.6	960.5	961.2	962.1	963.3	964.3
127.5°	1034.1	1032.1	1030.0	1028.0	1030.0	1032.1	1034.1	1036.0	1037.4	1037.9	1038.6
130°	1082.9	1081.5	1080.2	1078.8	1080.2	1081.5	1082.9	1084.2	1085.3	1086.1	1086.9
132.5°	1129.7	1128.4	1127.0	1125.7	1127.0	1128.4	1129.7	1131.1	1131.8	1132.0	1132.2
135°	1194.8	1193.1	1191.5	1189.9	1191.5	1193.1	1194.8	1196.4	1197.4	1198.0	1198.5
137.5°	1258.5	1257.1	1255.7	1254.2	1255.7	1257.1	1258.5	1259.9	1260.6	1260.5	1260.4
140°	1297.2	1295.6	1294.0	1292.3	1294.0	1295.6	1297.2	1298.8	1299.4	1298.8	1298.4
142.5°	1333.3	1331.7	1330.1	1328.5	1330.1	1331.7	1333.3	1335.0	1335.8	1335.7	1335.5
145°	1386.3	1384.7	1383.1	1381.5	1383.1	1384.7	1386.3	1388.0	1388.6	1388.4	1388.1
147.5°	1431.0	1429.0	1427.1	1425.1	1427.1	1429.0	1431.0	1432.9	1433.8	1433.4	1433.1
150°	1459.9	1457.7	1455.6	1453.4	1455.6	1457.7	1459.9	1462.1	1462.9	1462.4	1461.9
152.5°	1485.6	1483.8	1481.8	1479.8	1481.8	1483.8	1485.6	1487.6	1488.3	1487.8	1487.2
155°	1521.0	1518.8	1516.6	1514.5	1516.6	1518.8	1521.0	1523.1	1523.8	1523.0	1522.2
157.5°	1550.0	1547.8	1545.7	1543.5	1545.7	1547.8	1550.0	1552.2	1552.8	1552.0	1551.1
160°	1568.6	1566.4	1564.2	1562.1	1564.2	1566.4	1568.6	1570.7	1571.3	1570.2	1569.1
162.5°	1585.8	1583.4	1581.0	1578.7	1581.0	1583.4	1585.8	1588.2	1588.7	1587.1	1585.5
165°	1607.6	1605.4	1603.3	1601.1	1603.3	1605.4	1607.6	1609.8	1610.1	1608.4	1606.8
167.5°	1624.0	1621.6	1619.2	1616.7	1619.2	1621.6	1624.0	1626.5	1626.7	1624.8	1622.9
170°	1632.9	1630.4	1628.0	1625.5	1628.0	1630.4	1632.9	1635.3	1635.4	1633.2	1631.1
172.5°	1638.7	1636.3	1633.8	1631.4	1633.8	1636.3	1638.7	1641.2	1641.3	1639.5	1637.5
175°	1646.2	1643.8	1641.3	1638.9	1641.3	1643.8	1646.2	1648.7	1648.8	1646.6	1644.5
177.5°	1648.5	1646.8	1645.0	1643.3	1645.0	1646.8	1648.5	1650.3	1650.4	1648.9	1647.4
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



TEST NUMBER: P333712-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1485.5	1491.2	1494.2	1501.4	1511.6	1516.6	1523.7	1528.8	1536.0	1544.6	1551.7
5°	1389.4	1404.7	1414.9	1430.7	1445.4	1460.0	1478.5	1491.8	1509.6	1529.9	1545.9
7.5°	1300.0	1319.2	1336.1	1357.1	1381.2	1400.1	1424.1	1448.7	1476.5	1505.4	1532.7
10°	1243.0	1262.2	1283.2	1309.2	1333.4	1358.9	1387.4	1416.1	1451.0	1483.6	1520.4
12.5°	1186.6	1207.7	1231.2	1260.4	1289.6	1322.2	1351.3	1383.6	1421.1	1463.2	1502.6
15°	1116.4	1136.8	1162.2	1187.0	1220.8	1256.4	1295.2	1337.8	1379.8	1426.9	1475.9
17.5°	1041.2	1063.7	1091.7	1120.4	1155.9	1197.6	1235.7	1282.3	1329.6	1384.4	1442.1
20°	992.4	1015.3	1048.4	1080.2	1112.7	1153.4	1198.5	1246.2	1296.5	1354.4	1418.6
22.5°	953.8	970.1	1002.6	1034.9	1073.0	1114.7	1158.9	1208.6	1263.4	1323.3	1390.6
25°	896.4	915.4	939.0	972.7	1012.1	1056.0	1100.5	1153.4	1213.1	1274.2	1346.1
27.5°	845.4	861.0	884.3	910.7	950.1	995.6	1042.9	1098.0	1159.3	1221.5	1297.1
30°	809.2	826.3	848.7	876.7	907.8	957.4	1005.8	1059.9	1122.2	1186.5	1264.0
32.5°	777.6	795.3	814.5	841.0	874.7	918.8	968.7	1021.7	1085.1	1151.3	1226.9
35°	733.5	745.6	763.4	789.5	822.6	858.2	909.1	965.1	1026.8	1095.5	1171.2
37.5°	682.9	698.5	716.1	738.9	767.9	806.4	853.8	910.3	967.6	1033.4	1102.5
40°	653.4	668.0	687.7	704.3	734.8	769.8	813.0	872.1	929.4	991.2	1054.1
42.5°	623.3	637.4	654.1	674.7	702.2	736.1	776.4	831.4	892.8	950.9	1003.7
45°	576.4	591.0	606.9	625.9	651.4	684.5	724.6	774.9	828.3	881.7	921.8
47.5°	531.4	545.2	560.2	579.8	603.2	635.2	671.0	715.4	767.3	812.8	841.4
50°	499.4	512.1	528.7	547.7	570.6	600.5	634.9	678.8	722.1	763.4	789.5
52.5°	467.9	482.1	498.6	515.2	537.1	566.9	598.8	636.5	677.8	711.5	733.0
55°	420.5	433.9	449.1	466.3	488.0	513.4	547.1	577.0	609.4	638.1	650.8
57.5°	374.8	386.5	400.9	418.7	438.2	461.8	488.6	517.4	540.3	560.4	574.9
60°	344.8	355.0	368.3	383.6	404.6	426.2	450.4	477.1	494.9	512.1	525.5
62.5°	314.2	324.0	336.8	350.5	369.0	389.1	412.3	433.9	451.2	462.8	478.2
65°	268.4	278.0	288.8	303.4	318.1	334.6	355.6	371.6	383.6	396.3	405.9
67.5°	225.8	233.8	244.0	255.5	267.9	283.7	300.0	313.2	321.5	329.1	340.6
70°	197.8	204.2	212.4	221.4	234.8	250.6	263.3	273.5	279.3	286.9	300.9
72.5°	169.4	176.7	184.5	193.4	204.2	217.5	228.8	238.9	242.6	248.7	257.7
75°	133.6	137.4	143.7	150.1	157.8	169.2	180.0	182.6	185.8	190.9	197.2
77.5°	101.0	104.4	107.0	111.2	117.3	126.5	132.2	136.0	136.8	138.6	145.0
80°	80.1	82.1	84.6	87.8	90.3	97.9	101.1	105.0	106.2	108.1	111.3
82.5°	58.8	60.7	62.2	64.8	69.0	72.0	75.2	79.0	79.3	80.7	81.3
85°	34.3	35.0	33.7	35.0	35.6	36.9	40.1	43.3	42.6	41.9	43.9
87.5°	16.4	16.1	15.3	16.4	15.0	15.1	14.7	14.8	15.4	15.9	16.5
90°	20.9	19.5	17.6	15.7	13.9	12.0	9.9	7.7	5.6	3.4	1.2
92.5°	20.9	19.5	17.8	16.1	14.5	12.8	12.7	14.2	15.7	17.2	18.8
95°	20.9	19.5	29.8	40.2	50.4	60.7	66.3	67.1	68.0	68.7	69.6
97.5°	52.4	60.0	80.4	100.9	121.2	141.6	151.1	149.6	148.2	146.7	145.2
100°	171.9	212.4	211.2	210.2	209.1	208.0	207.1	206.2	205.4	204.6	203.8
102.5°	263.3	270.9	270.2	269.7	269.0	268.3	267.5	266.5	265.4	264.4	263.3
105°	363.6	363.6	363.6	363.6	363.6	363.6	363.2	362.0	361.0	359.9	358.8
107.5°	460.3	460.3	459.8	459.2	458.7	458.2	457.9	457.9	457.9	457.9	457.9
110°	524.0	524.7	524.2	523.7	523.1	522.5	522.4	522.4	522.4	522.4	522.4



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	586.2	587.2	586.9	586.5	586.3	586.0	585.4	584.8	584.2	583.5	582.9
115°	679.9	681.0	680.7	680.4	680.1	679.9	679.1	677.7	676.4	675.0	673.6
117.5°	770.6	772.0	771.0	770.0	768.9	767.9	767.4	767.4	767.5	767.5	767.6
120°	828.1	828.6	827.8	827.0	826.1	825.4	825.1	825.4	825.7	826.0	826.1
122.5°	883.7	884.3	883.9	883.5	883.2	882.8	882.0	881.0	880.0	878.9	877.9
125°	965.4	966.5	966.5	966.5	966.5	966.5	965.5	963.7	961.8	959.9	958.0
127.5°	1039.2	1039.7	1039.9	1040.1	1040.2	1040.4	1039.8	1038.4	1037.1	1035.8	1034.3
130°	1087.8	1088.5	1088.3	1088.0	1087.8	1087.5	1086.7	1085.3	1083.9	1082.6	1081.2
132.5°	1132.4	1132.5	1133.1	1133.7	1134.3	1134.9	1134.3	1132.8	1131.2	1129.6	1128.1
135°	1199.1	1199.6	1200.1	1200.7	1201.3	1201.7	1201.3	1199.6	1198.0	1196.4	1194.8
137.5°	1260.3	1260.2	1260.7	1261.1	1261.6	1262.1	1261.6	1260.2	1258.8	1257.4	1256.0
140°	1297.8	1297.2	1297.5	1297.8	1298.1	1298.4	1298.2	1297.6	1297.1	1296.6	1296.0
142.5°	1335.4	1335.3	1334.9	1334.5	1334.2	1333.8	1333.4	1333.1	1332.8	1332.5	1332.1
145°	1387.8	1387.5	1387.5	1387.5	1387.5	1387.5	1387.2	1386.8	1386.2	1385.6	1385.1
147.5°	1432.8	1432.5	1432.1	1431.8	1431.4	1431.2	1431.1	1431.2	1431.3	1431.3	1431.4
150°	1461.3	1460.8	1460.2	1459.7	1459.2	1458.6	1458.6	1459.2	1459.7	1460.2	1460.8
152.5°	1486.7	1486.1	1485.6	1485.1	1484.5	1483.9	1484.3	1485.5	1486.7	1487.9	1489.0
155°	1521.4	1520.6	1520.0	1519.5	1518.9	1518.4	1518.9	1520.6	1522.2	1523.8	1525.4
157.5°	1550.2	1549.4	1549.4	1549.3	1549.2	1549.2	1549.6	1550.6	1551.5	1552.6	1553.5
160°	1568.0	1567.0	1566.7	1566.4	1566.1	1565.8	1566.5	1568.1	1569.8	1571.4	1573.0
162.5°	1584.0	1582.5	1582.2	1582.1	1581.8	1581.5	1582.2	1583.8	1585.4	1587.1	1588.7
165°	1605.1	1603.5	1603.3	1603.0	1602.7	1602.4	1603.2	1604.8	1606.4	1608.0	1609.7
167.5°	1620.9	1618.9	1618.6	1618.3	1618.1	1617.9	1618.5	1620.2	1621.9	1623.6	1625.2
170°	1628.9	1626.7	1626.5	1626.2	1625.9	1625.6	1626.5	1628.3	1630.2	1632.2	1634.1
172.5°	1635.5	1633.5	1633.0	1632.6	1632.1	1631.6	1632.3	1634.2	1636.2	1638.0	1639.9
175°	1642.3	1640.1	1639.9	1639.6	1639.4	1639.1	1639.7	1641.3	1643.0	1644.6	1646.2
177.5°	1645.9	1644.3	1644.1	1643.9	1643.7	1643.4	1644.0	1645.3	1646.6	1647.8	1649.2
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



TEST NUMBER: P333712-830

CATALOG NUMBER: S125RDIW-S1090D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1557.4	1561.9	1568.5	1576.1	1582.2	1588.8	1592.4	1592.4	1595.5	1602.1	1610.8
5°	1561.8	1578.3	1594.2	1614.6	1630.5	1648.9	1662.9	1676.3	1688.4	1703.6	1719.6
7.5°	1560.5	1588.0	1616.6	1648.7	1684.0	1712.1	1741.1	1763.7	1786.1	1815.3	1838.3
10°	1555.4	1591.0	1629.8	1670.6	1715.1	1753.9	1788.9	1820.7	1851.2	1883.0	1911.7
12.5°	1546.2	1591.6	1639.0	1687.9	1744.1	1788.5	1833.7	1867.6	1903.2	1938.0	1973.2
15°	1532.5	1585.9	1643.2	1711.3	1780.0	1829.6	1874.2	1918.1	1951.1	1990.6	2024.3
17.5°	1504.1	1573.0	1645.0	1719.4	1785.5	1843.0	1889.8	1931.6	1966.8	2010.2	2056.0
20°	1487.3	1561.8	1636.8	1716.4	1779.3	1838.5	1883.7	1926.9	1970.9	2027.4	2083.4
22.5°	1464.0	1543.4	1623.1	1698.6	1765.1	1822.2	1868.9	1921.8	1979.4	2043.7	2111.4
25°	1426.9	1509.0	1587.9	1659.7	1724.7	1783.2	1846.8	1918.1	1988.0	2072.7	2169.9
27.5°	1380.0	1459.1	1529.5	1605.4	1669.9	1744.4	1823.7	1901.0	2001.9	2118.3	2239.8
30°	1344.8	1419.9	1486.7	1558.6	1631.7	1713.8	1802.9	1893.9	2014.1	2150.9	2295.3
32.5°	1304.1	1372.1	1438.3	1507.7	1592.0	1682.2	1776.9	1888.3	2031.9	2187.5	2337.0
35°	1233.5	1294.6	1358.9	1435.8	1525.5	1623.5	1744.4	1879.9	2053.5	2220.8	2355.0
37.5°	1159.4	1207.7	1272.1	1353.4	1451.0	1564.4	1701.6	1866.2	2044.7	2194.7	2251.9
40°	1102.5	1147.6	1215.7	1301.0	1397.6	1521.7	1675.7	1844.8	2024.3	2128.6	2124.1
42.5°	1045.9	1091.7	1157.2	1242.9	1343.7	1482.5	1641.1	1816.8	1968.3	2008.0	1925.1
45°	959.3	1001.9	1066.2	1152.7	1260.8	1406.6	1573.2	1741.8	1838.5	1774.2	1610.1
47.5°	871.0	912.4	972.0	1056.8	1174.9	1327.3	1484.9	1623.2	1636.8	1498.8	1301.9
50°	813.0	851.8	908.4	998.8	1113.2	1262.2	1414.2	1523.0	1489.2	1320.7	1117.8
52.5°	756.5	793.8	846.9	932.1	1049.1	1195.0	1330.7	1416.1	1338.1	1158.9	976.3
55°	673.1	708.7	762.1	840.4	946.6	1080.2	1199.2	1230.3	1115.8	935.2	787.6
57.5°	593.8	619.9	672.7	741.9	844.3	962.1	1047.4	1041.8	915.4	752.7	646.9
60°	541.4	564.9	615.2	678.8	776.1	881.7	941.5	916.1	788.2	653.9	552.1
62.5°	492.5	514.5	556.7	615.2	698.8	790.6	834.2	799.0	678.3	560.3	479.4
65°	418.6	434.5	468.3	522.3	587.8	651.4	690.2	638.7	531.9	442.8	381.7
67.5°	349.5	363.3	393.2	432.1	477.2	521.1	537.0	488.6	405.5	345.4	302.5
70°	304.7	317.4	337.8	374.1	404.0	435.2	442.8	399.5	330.2	284.4	257.7
72.5°	261.9	273.7	291.5	317.1	337.8	355.7	359.3	319.1	266.1	234.5	213.9
75°	199.7	209.9	221.4	230.9	244.3	247.5	246.2	215.0	186.4	165.4	153.9
77.5°	146.8	151.0	158.1	161.8	162.5	162.2	155.7	136.0	121.2	112.6	107.9
80°	113.2	116.4	118.3	119.6	120.3	113.9	106.9	94.8	89.7	84.6	78.9
82.5°	82.2	84.4	86.2	86.5	83.0	77.8	71.3	65.2	61.7	59.2	57.0
85°	44.5	45.1	44.5	41.4	36.9	35.0	33.7	32.4	31.8	31.2	31.2
87.5°	16.5	15.4	13.3	14.2	14.6	14.5	14.9	14.7	14.6	14.9	15.2
90°	3.4	5.6	7.7	9.9	12.0	13.9	15.7	17.6	19.5	20.9	22.2
92.5°	17.2	15.7	14.2	12.7	12.8	14.5	16.1	17.8	19.5	20.9	22.2
95°	68.7	68.0	67.1	66.3	60.7	50.4	40.2	29.8	19.5	20.9	22.2
97.5°	146.7	148.2	149.6	151.1	141.6	121.2	100.9	80.4	60.0	52.4	44.8
100°	204.6	205.4	206.2	207.1	208.0	209.1	210.2	211.2	212.4	171.9	131.5
102.5°	264.4	265.4	266.5	267.5	268.3	269.0	269.7	270.2	270.9	263.3	255.6
105°	359.9	361.0	362.0	363.2	363.6	363.6	363.6	363.6	363.6	363.6	363.6
107.5°	457.9	457.9	457.9	457.9	458.2	458.7	459.2	459.8	460.3	460.3	460.4
110°	522.4	522.4	522.4	522.4	522.5	523.1	523.7	524.2	524.7	524.0	523.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	583.5	584.2	584.8	585.4	586.0	586.3	586.5	586.9	587.2	586.2	585.1
115°	675.0	676.4	677.7	679.1	679.9	680.1	680.4	680.7	681.0	679.9	678.8
117.5°	767.5	767.5	767.4	767.4	767.9	768.9	770.0	771.0	772.0	770.6	769.2
120°	826.0	825.7	825.4	825.1	825.4	826.1	827.0	827.8	828.6	828.1	827.6
122.5°	878.9	880.0	881.0	882.0	882.8	883.2	883.5	883.9	884.3	883.7	883.2
125°	959.9	961.8	963.7	965.5	966.5	966.5	966.5	966.5	966.5	965.4	964.3
127.5°	1035.8	1037.1	1038.4	1039.8	1040.4	1040.2	1040.1	1039.9	1039.7	1039.2	1038.6
130°	1082.6	1083.9	1085.3	1086.7	1087.5	1087.8	1088.0	1088.3	1088.5	1087.8	1086.9
132.5°	1129.6	1131.2	1132.8	1134.3	1134.9	1134.3	1133.7	1133.1	1132.5	1132.4	1132.2
135°	1196.4	1198.0	1199.6	1201.3	1201.7	1201.3	1200.7	1200.1	1199.6	1199.1	1198.5
137.5°	1257.4	1258.8	1260.2	1261.6	1262.1	1261.6	1261.1	1260.7	1260.2	1260.3	1260.4
140°	1296.6	1297.1	1297.6	1298.2	1298.4	1298.1	1297.8	1297.5	1297.2	1297.8	1298.4
142.5°	1332.5	1332.8	1333.1	1333.4	1333.8	1334.2	1334.5	1334.9	1335.3	1335.4	1335.5
145°	1385.6	1386.2	1386.8	1387.2	1387.5	1387.5	1387.5	1387.5	1387.5	1387.8	1388.1
147.5°	1431.3	1431.3	1431.2	1431.1	1431.2	1431.4	1431.8	1432.1	1432.5	1432.8	1433.1
150°	1460.2	1459.7	1459.2	1458.6	1458.6	1459.2	1459.7	1460.2	1460.8	1461.3	1461.9
152.5°	1487.9	1486.7	1485.5	1484.3	1483.9	1484.5	1485.1	1485.6	1486.1	1486.7	1487.2
155°	1523.8	1522.2	1520.6	1518.9	1518.4	1518.9	1519.5	1520.0	1520.6	1521.4	1522.2
157.5°	1552.6	1551.5	1550.6	1549.6	1549.2	1549.2	1549.3	1549.4	1549.4	1550.2	1551.1
160°	1571.4	1569.8	1568.1	1566.5	1565.8	1566.1	1566.4	1566.7	1567.0	1568.0	1569.1
162.5°	1587.1	1585.4	1583.8	1582.2	1581.5	1581.8	1582.1	1582.2	1582.5	1584.0	1585.5
165°	1608.0	1606.4	1604.8	1603.2	1602.4	1602.7	1603.0	1603.3	1603.5	1605.1	1606.8
167.5°	1623.6	1621.9	1620.2	1618.5	1617.9	1618.1	1618.3	1618.6	1618.9	1620.9	1622.9
170°	1632.2	1630.2	1628.3	1626.5	1625.6	1625.9	1626.2	1626.5	1626.7	1628.9	1631.1
172.5°	1638.0	1636.2	1634.2	1632.3	1631.6	1632.1	1632.6	1633.0	1633.5	1635.5	1637.5
175°	1644.6	1643.0	1641.3	1639.7	1639.1	1639.4	1639.6	1639.9	1640.1	1642.3	1644.5
177.5°	1647.8	1646.6	1645.3	1644.0	1643.4	1643.7	1643.9	1644.1	1644.3	1645.9	1647.4
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1617.4	1617.4	1626.1	1625.5	1631.2	1629.1	1630.1
5°	1738.6	1749.5	1759.0	1765.4	1774.9	1777.4	1776.1
7.5°	1864.3	1888.4	1900.1	1916.1	1919.0	1927.4	1926.6
10°	1942.2	1965.8	1983.6	1997.5	2004.5	2013.5	2014.1
12.5°	2003.3	2023.3	2039.0	2052.0	2060.5	2063.3	2065.0
15°	2051.0	2073.2	2091.7	2110.2	2121.0	2129.2	2133.7
17.5°	2099.0	2133.4	2166.0	2191.0	2206.1	2218.8	2218.7
20°	2136.3	2175.7	2216.4	2245.0	2274.3	2287.0	2288.9
22.5°	2176.0	2236.3	2288.7	2333.1	2371.4	2384.7	2389.7
25°	2258.3	2337.2	2418.1	2480.4	2524.9	2551.0	2554.9
27.5°	2358.0	2464.7	2549.8	2607.3	2644.3	2663.6	2667.8
30°	2428.3	2526.9	2603.2	2646.5	2663.6	2666.2	2656.7
32.5°	2459.8	2533.5	2564.0	2561.5	2527.7	2505.4	2496.8
35°	2421.2	2405.9	2331.6	2242.5	2174.4	2131.2	2119.7
37.5°	2203.4	2071.7	1934.9	1800.3	1728.6	1692.1	1629.6
40°	1988.7	1801.0	1658.5	1545.2	1464.4	1399.6	1384.3
42.5°	1746.4	1552.7	1410.1	1313.2	1248.7	1204.1	1184.8
45°	1403.4	1236.7	1119.0	1044.6	994.9	962.5	947.9
47.5°	1122.5	993.4	907.7	852.6	814.8	786.6	778.6
50°	968.3	865.2	792.7	746.2	717.6	696.0	687.0
52.5°	841.0	757.8	702.1	663.7	636.7	623.2	615.8
55°	694.1	622.2	582.1	551.6	536.3	525.5	520.4
57.5°	567.6	515.7	486.4	465.3	451.2	444.3	441.8
60°	496.8	456.1	429.4	412.8	403.3	394.5	391.9
62.5°	434.2	402.2	381.5	367.0	357.5	353.7	352.1
65°	349.9	328.9	313.6	304.7	297.1	295.8	295.2
67.5°	278.1	265.8	257.8	248.5	245.8	241.4	240.4
70°	237.9	229.7	220.1	217.0	213.8	209.3	209.9
72.5°	201.8	193.5	187.0	182.9	181.7	179.7	181.4
75°	147.6	145.1	142.5	139.3	138.1	138.1	137.4
77.5°	105.4	103.2	100.4	98.5	98.1	95.4	96.4
80°	76.3	73.1	71.9	72.5	70.6	69.9	69.9
82.5°	56.5	55.3	54.1	54.2	53.8	53.2	53.7
85°	31.2	30.5	30.5	29.9	29.9	29.2	29.2
87.5°	15.9	16.7	15.9	15.6	15.7	16.4	17.1
90°	23.6	25.0	26.0	26.9	27.6	28.5	29.3
92.5°	23.6	25.0	25.8	26.2	26.6	27.0	27.3
95°	23.6	25.0	25.6	25.6	25.6	25.6	25.6
97.5°	37.1	29.4	25.6	25.6	25.6	25.6	25.6
100°	91.1	50.7	30.0	28.8	27.8	26.7	25.6
102.5°	248.0	240.3	227.2	208.9	190.4	171.9	153.5
105°	363.6	363.6	363.5	363.3	363.0	362.7	362.4
107.5°	460.5	460.5	460.1	459.3	458.5	457.7	456.9
110°	522.4	521.5	521.2	521.5	521.8	522.1	522.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	584.2	583.2	582.4	582.0	581.6	581.3	580.9
115°	677.7	676.7	675.2	673.6	672.0	670.3	668.7
117.5°	767.8	766.4	765.3	764.6	763.9	763.2	762.5
120°	827.0	826.4	825.5	824.2	822.7	821.4	820.1
122.5°	882.6	882.1	881.0	879.5	877.9	876.3	874.8
125°	963.3	962.1	961.2	960.5	959.6	958.8	958.0
127.5°	1037.9	1037.4	1036.0	1034.1	1032.1	1030.0	1028.0
130°	1086.1	1085.3	1084.2	1082.9	1081.5	1080.2	1078.8
132.5°	1132.0	1131.8	1131.1	1129.7	1128.4	1127.0	1125.7
135°	1198.0	1197.4	1196.4	1194.8	1193.1	1191.5	1189.9
137.5°	1260.5	1260.6	1259.9	1258.5	1257.1	1255.7	1254.2
140°	1298.8	1299.4	1298.8	1297.2	1295.6	1294.0	1292.3
142.5°	1335.7	1335.8	1335.0	1333.3	1331.7	1330.1	1328.5
145°	1388.4	1388.6	1388.0	1386.3	1384.7	1383.1	1381.5
147.5°	1433.4	1433.8	1432.9	1431.0	1429.0	1427.1	1425.1
150°	1462.4	1462.9	1462.1	1459.9	1457.7	1455.6	1453.4
152.5°	1487.8	1488.3	1487.6	1485.6	1483.8	1481.8	1479.8
155°	1523.0	1523.8	1523.1	1521.0	1518.8	1516.6	1514.5
157.5°	1552.0	1552.8	1552.2	1550.0	1547.8	1545.7	1543.5
160°	1570.2	1571.3	1570.7	1568.6	1566.4	1564.2	1562.1
162.5°	1587.1	1588.7	1588.2	1585.8	1583.4	1581.0	1578.7
165°	1608.4	1610.1	1609.8	1607.6	1605.4	1603.3	1601.1
167.5°	1624.8	1626.7	1626.5	1624.0	1621.6	1619.2	1616.7
170°	1633.2	1635.4	1635.3	1632.9	1630.4	1628.0	1625.5
172.5°	1639.5	1641.3	1641.2	1638.7	1636.3	1633.8	1631.4
175°	1646.6	1648.8	1648.7	1646.2	1643.8	1641.3	1638.9
177.5°	1648.9	1650.4	1650.3	1648.5	1646.8	1645.0	1643.3
180°	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2	1646.2

(END OF REPORT)