

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: P333599-830

Luminaire Tested: **S125RDIP-S1090D1035U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333599-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIP-S1090D1035U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7391.7 lumens
Efficiency: N/A
Efficacy: 122.2 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

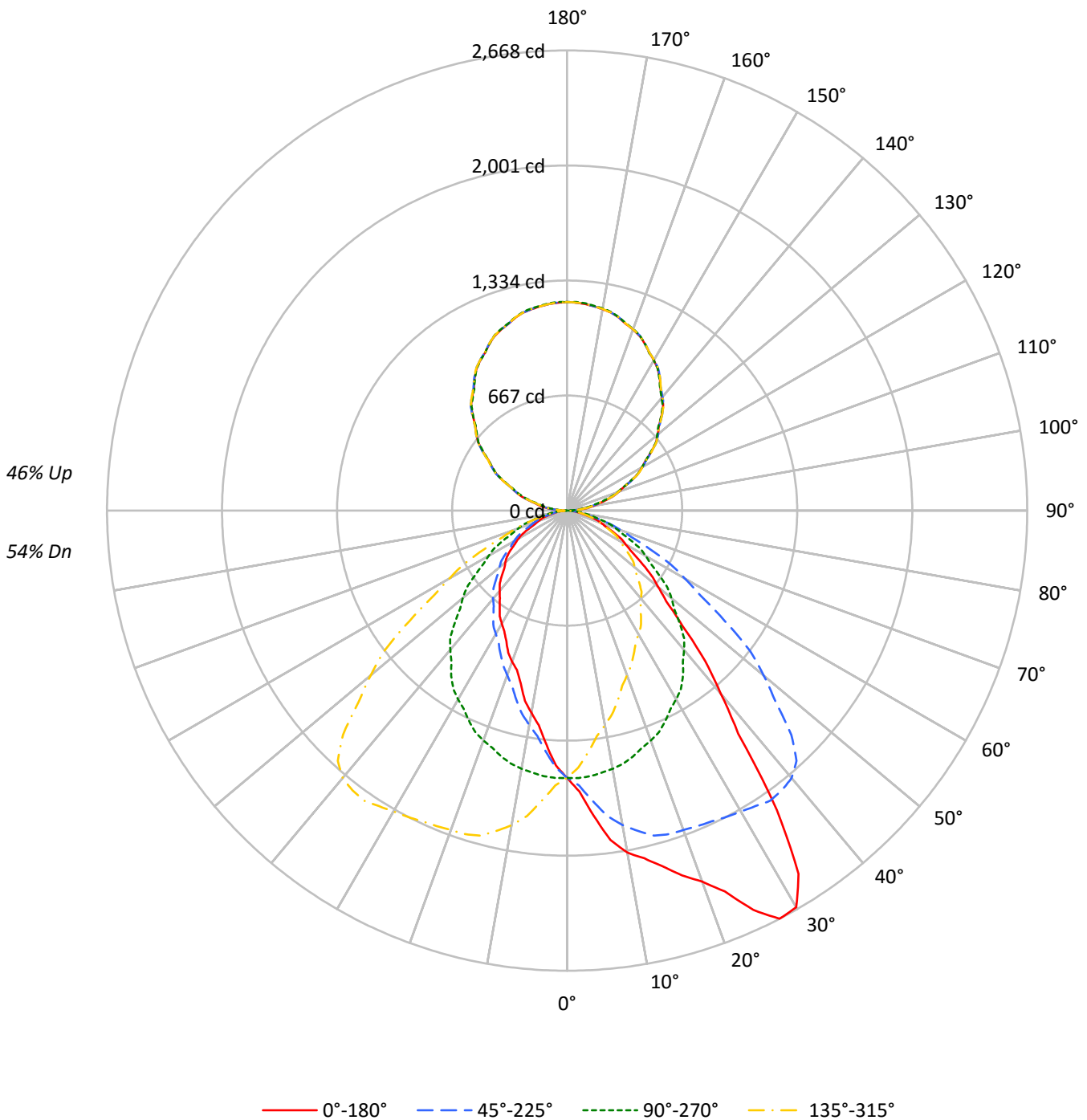
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	74	71	64	63	61	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	57	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	46	41	38	38	36	33	30
5	70	59	51	45	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	48	40	34	55	45	38	33	39	33	29	34	29	26	29	26	23	20
8	55	43	36	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	23	19	17	15

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	2.0
10°-20°	435.5	5.9
20°-30°	690.5	9.3
30°-40°	832.7	11.3
40°-50°	743.6	10.1
50°-60°	570.3	7.7
60°-70°	370.6	5.0
70°-80°	180.2	2.4
80°-90°	45.6	0.6
90°-100°	81.0	1.1
100°-110°	239.1	3.2
110°-120°	405.1	5.5
120°-130°	533.1	7.2
130°-140°	597.3	8.1
140°-150°	585.5	7.9
150°-160°	491.7	6.7
160°-170°	326.9	4.4
170°-180°	114.4	1.5
0°-30°	1274.6	17.2
0°-40°	2107.3	28.5
0°-60°	3421.2	46.3
0°-90°	4017.6	54.4
90°-120°	725.2	9.8
90°-150°	2441.1	33.0
90°-180°	3374.0	45.6
0°-180°	7391.7	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°	23	1	23	1	23	14
95°	81	61	81	61	81	82
105°	233	214	233	214	233	247
115°	409	406	409	406	409	405
125°	596	592	596	592	596	532
135°	772	770	772	770	772	596
145°	936	933	936	933	936	584
155°	1067	1067	1067	1067	1067	491
165°	1157	1160	1157	1160	1157	326
175°	1202	1206	1202	1206	1202	114
180°	1209	1209	1209	1209	1209	



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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°	15.7	15.1	14.4	14.3	14.7	15.6	14.8	14.1	13.9	13.7	13.9
90°	22.6	22.0	21.3	20.7	20.1	19.2	18.2	17.2	16.1	15.1	13.6
92.5°	44.4	43.9	43.5	43.1	42.6	41.7	40.2	38.9	37.5	36.1	34.3
95°	81.0	80.5	80.1	79.6	79.3	78.3	76.8	75.4	73.9	72.5	70.4
97.5°	122.7	122.4	122.2	122.0	121.7	120.9	119.5	118.1	116.8	115.4	112.4
100°	154.3	153.9	153.4	153.1	152.7	151.5	149.6	147.7	145.8	143.9	141.3
102.5°	186.0	185.4	184.7	184.2	183.6	182.3	180.2	178.1	176.2	174.1	172.7
105°	233.4	232.7	232.1	231.5	230.8	229.9	228.7	227.4	226.1	224.9	223.7
107.5°	281.9	282.0	282.0	282.0	282.1	281.8	281.2	280.5	279.9	279.3	278.3
110°	318.0	318.3	318.5	318.7	318.9	318.7	318.0	317.4	316.8	316.1	315.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	353.5	353.8	354.2	354.6	355.0	355.0	354.7	354.4	354.1	353.8	353.0
115°	409.3	409.5	409.7	409.9	410.2	410.4	410.6	410.8	411.0	411.2	410.8
117.5°	463.9	464.8	465.6	466.4	467.2	467.6	467.4	467.2	467.1	466.9	466.6
120°	501.5	502.4	503.2	504.1	504.9	505.3	505.3	505.3	505.3	505.3	505.1
122.5°	539.2	539.9	540.5	541.2	541.9	542.2	542.4	542.6	542.8	542.9	542.4
125°	595.7	595.9	596.1	596.3	596.4	596.8	597.2	597.7	598.0	598.5	598.2
127.5°	649.9	650.3	650.6	651.1	651.5	651.9	652.1	652.2	652.4	652.7	652.4
130°	686.0	686.4	686.8	687.2	687.7	688.0	688.2	688.3	688.6	688.8	688.3
132.5°	719.8	720.5	721.0	721.6	722.2	722.6	722.8	723.0	723.2	723.4	723.5
135°	772.5	773.4	774.2	775.1	775.9	776.3	776.3	776.3	776.3	776.3	776.1
137.5°	824.2	825.2	826.2	827.3	828.3	828.7	828.4	828.2	827.9	827.6	827.3
140°	857.2	858.3	859.3	860.4	861.4	861.8	861.3	860.9	860.4	860.1	859.4
142.5°	888.8	889.9	891.0	892.0	893.1	893.4	893.2	893.0	892.7	892.4	891.6
145°	936.3	936.9	937.5	938.2	938.8	939.1	939.1	939.1	939.1	939.1	938.5
147.5°	976.8	978.2	979.6	981.0	982.4	982.9	982.4	981.8	981.4	980.9	980.3
150°	1006.8	1007.3	1007.7	1008.1	1008.5	1008.7	1008.7	1008.7	1008.7	1008.7	1007.9
152.5°	1031.7	1032.5	1033.2	1034.0	1034.7	1034.8	1034.3	1033.9	1033.3	1032.8	1032.5
155°	1067.1	1068.1	1069.1	1070.3	1071.3	1071.4	1070.5	1069.7	1068.8	1068.0	1067.8
157.5°	1096.6	1098.0	1099.4	1100.8	1102.1	1102.4	1101.5	1100.7	1099.9	1099.1	1098.9
160°	1116.9	1118.0	1119.1	1120.1	1121.2	1121.2	1120.4	1119.6	1118.7	1117.9	1117.7
162.5°	1134.3	1135.5	1136.7	1137.9	1139.2	1139.3	1138.2	1137.2	1136.2	1135.2	1135.2
165°	1157.4	1158.7	1159.9	1161.2	1162.4	1162.6	1161.8	1160.9	1160.2	1159.3	1159.0
167.5°	1175.8	1177.1	1178.5	1179.8	1181.0	1181.1	1179.8	1178.6	1177.3	1176.0	1176.0
170°	1185.6	1187.1	1188.5	1190.1	1191.5	1191.6	1190.3	1189.1	1187.9	1186.6	1186.6
172.5°	1193.9	1195.2	1196.6	1197.8	1199.1	1199.1	1197.9	1196.7	1195.3	1194.1	1194.1
175°	1201.6	1203.1	1204.6	1206.1	1207.5	1207.6	1206.4	1205.1	1203.8	1202.6	1202.6
177.5°	1206.2	1207.3	1208.5	1209.7	1210.9	1210.9	1209.9	1208.9	1208.0	1206.9	1207.1
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



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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°	14.1	13.9	14.0	13.8	12.9	15.1	16.3	16.5	15.8	15.1	14.4
90°	12.2	10.7	9.2	7.6	5.9	4.2	2.6	0.9	2.6	4.2	5.9
92.5°	32.5	30.7	28.9	27.4	26.3	25.1	23.9	22.8	23.9	25.1	26.3
95°	68.2	66.2	64.1	62.9	62.4	62.0	61.5	61.2	61.5	62.0	62.4
97.5°	109.6	106.7	103.9	102.3	102.2	102.0	101.8	101.6	101.8	102.0	102.2
100°	138.6	135.8	133.1	131.8	131.8	131.8	131.8	131.8	131.8	131.8	131.8
102.5°	171.4	169.9	168.5	167.5	166.6	165.8	164.9	164.1	164.9	165.8	166.6
105°	222.3	221.1	219.9	218.8	217.7	216.6	215.6	214.5	215.6	216.6	217.7
107.5°	277.4	276.4	275.4	274.5	273.4	272.3	271.3	270.2	271.3	272.3	273.4
110°	314.9	314.2	313.7	312.8	311.8	310.8	309.7	308.7	309.7	310.8	311.8



TEST NUMBER: P333599-830

CATALOG NUMBER: S125RDIP-S1090D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	352.2	351.5	350.6	350.0	349.4	348.8	348.4	347.8	348.4	348.8	349.4
115°	410.4	409.9	409.5	408.9	408.1	407.3	406.4	405.6	406.4	407.3	408.1
117.5°	466.2	465.8	465.4	465.1	464.7	464.3	463.9	463.5	463.9	464.3	464.7
120°	504.9	504.6	504.4	503.9	502.8	501.7	500.7	499.6	500.7	501.7	502.8
122.5°	541.9	541.3	540.7	540.4	540.0	539.6	539.2	538.9	539.2	539.6	540.0
125°	598.0	597.9	597.7	596.9	595.7	594.4	593.1	591.9	593.1	594.4	595.7
127.5°	652.1	652.0	651.7	651.2	650.4	649.8	649.0	648.4	649.0	649.8	650.4
130°	688.0	687.6	687.1	686.4	685.3	684.3	683.2	682.2	683.2	684.3	685.3
132.5°	723.6	723.7	723.8	722.9	721.2	719.5	717.8	716.0	717.8	719.5	721.2
135°	775.9	775.7	775.5	774.8	773.5	772.2	771.0	769.8	771.0	772.2	773.5
137.5°	826.8	826.3	825.9	825.0	823.8	822.6	821.3	820.2	821.3	822.6	823.8
140°	858.8	858.2	857.5	856.7	855.6	854.6	853.6	852.5	853.6	854.6	855.6
142.5°	890.9	890.0	889.3	888.4	887.5	886.6	885.8	884.9	885.8	886.6	887.5
145°	937.8	937.3	936.6	935.9	935.0	934.2	933.4	932.6	933.4	934.2	935.0
147.5°	979.9	979.4	978.9	978.4	978.0	977.5	977.0	976.6	977.0	977.5	978.0
150°	1007.1	1006.3	1005.4	1005.1	1005.3	1005.5	1005.7	1005.9	1005.7	1005.5	1005.3
152.5°	1032.2	1031.8	1031.5	1031.1	1030.9	1030.6	1030.3	1030.0	1030.3	1030.6	1030.9
155°	1067.6	1067.4	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
157.5°	1098.6	1098.4	1098.3	1098.3	1098.8	1099.3	1099.8	1100.2	1099.8	1099.3	1098.8
160°	1117.5	1117.3	1117.1	1117.3	1117.9	1118.5	1119.2	1119.7	1119.2	1118.5	1117.9
162.5°	1135.1	1135.1	1135.0	1135.3	1135.7	1136.1	1136.6	1137.1	1136.6	1136.1	1135.7
165°	1158.9	1158.7	1158.5	1158.6	1159.0	1159.4	1159.8	1160.3	1159.8	1159.4	1159.0
167.5°	1176.0	1176.0	1176.0	1176.5	1177.3	1178.2	1178.9	1179.8	1178.9	1178.2	1177.3
170°	1186.6	1186.6	1186.6	1187.0	1187.9	1188.6	1189.5	1190.3	1189.5	1188.6	1187.9
172.5°	1194.1	1194.1	1194.1	1194.6	1195.3	1196.2	1197.0	1197.9	1197.0	1196.2	1195.3
175°	1202.6	1202.6	1202.6	1203.0	1203.8	1204.7	1205.5	1206.4	1205.5	1204.7	1203.8
177.5°	1207.2	1207.4	1207.6	1208.0	1208.6	1209.4	1210.0	1210.7	1210.0	1209.4	1208.6
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



TEST NUMBER: P333599-830

CATALOG NUMBER: S125RDIP-S1090D1035U830-4F0-1E-UDD-A1

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°	14.2	14.6	14.3	15.6	14.4	15.3	15.5	15.2	15.4	15.6	15.2
90°	7.6	9.2	10.7	12.2	13.6	15.1	16.1	17.2	18.2	19.2	20.1
92.5°	27.4	28.9	30.7	32.5	34.3	36.1	37.5	38.9	40.2	41.7	42.6
95°	62.9	64.1	66.2	68.2	70.4	72.5	73.9	75.4	76.8	78.3	79.3
97.5°	102.3	103.9	106.7	109.6	112.4	115.4	116.8	118.1	119.5	120.9	121.7
100°	131.8	133.1	135.8	138.6	141.3	143.9	145.8	147.7	149.6	151.5	152.7
102.5°	167.5	168.5	169.9	171.4	172.7	174.1	176.2	178.1	180.2	182.3	183.6
105°	218.8	219.9	221.1	222.3	223.7	224.9	226.1	227.4	228.7	229.9	230.8
107.5°	274.5	275.4	276.4	277.4	278.3	279.3	279.9	280.5	281.2	281.8	282.1
110°	312.8	313.7	314.2	314.9	315.6	316.1	316.8	317.4	318.0	318.7	318.9



TEST NUMBER: P333599-830

CATALOG NUMBER: S125RDIP-S1090D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	350.0	350.6	351.5	352.2	353.0	353.8	354.1	354.4	354.7	355.0	355.0
115°	408.9	409.5	409.9	410.4	410.8	411.2	411.0	410.8	410.6	410.4	410.2
117.5°	465.1	465.4	465.8	466.2	466.6	466.9	467.1	467.2	467.4	467.6	467.2
120°	503.9	504.4	504.6	504.9	505.1	505.3	505.3	505.3	505.3	505.3	504.9
122.5°	540.4	540.7	541.3	541.9	542.4	542.9	542.8	542.6	542.4	542.2	541.9
125°	596.9	597.7	597.9	598.0	598.2	598.5	598.0	597.7	597.2	596.8	596.4
127.5°	651.2	651.7	652.0	652.1	652.4	652.7	652.4	652.2	652.1	651.9	651.5
130°	686.4	687.1	687.6	688.0	688.3	688.8	688.6	688.3	688.2	688.0	687.7
132.5°	722.9	723.8	723.7	723.6	723.5	723.4	723.2	723.0	722.8	722.6	722.2
135°	774.8	775.5	775.7	775.9	776.1	776.3	776.3	776.3	776.3	776.3	775.9
137.5°	825.0	825.9	826.3	826.8	827.3	827.6	827.9	828.2	828.4	828.7	828.3
140°	856.7	857.5	858.2	858.8	859.4	860.1	860.4	860.9	861.3	861.8	861.4
142.5°	888.4	889.3	890.0	890.9	891.6	892.4	892.7	893.0	893.2	893.4	893.1
145°	935.9	936.6	937.3	937.8	938.5	939.1	939.1	939.1	939.1	939.1	938.8
147.5°	978.4	978.9	979.4	979.9	980.3	980.9	981.4	981.8	982.4	982.9	982.4
150°	1005.1	1005.4	1006.3	1007.1	1007.9	1008.7	1008.7	1008.7	1008.7	1008.7	1008.5
152.5°	1031.1	1031.5	1031.8	1032.2	1032.5	1032.8	1033.3	1033.9	1034.3	1034.8	1034.7
155°	1067.1	1067.1	1067.4	1067.6	1067.8	1068.0	1068.8	1069.7	1070.5	1071.4	1071.3
157.5°	1098.3	1098.3	1098.4	1098.6	1098.9	1099.1	1099.9	1100.7	1101.5	1102.4	1102.1
160°	1117.3	1117.1	1117.3	1117.5	1117.7	1117.9	1118.7	1119.6	1120.4	1121.2	1121.2
162.5°	1135.3	1135.0	1135.1	1135.1	1135.2	1135.2	1136.2	1137.2	1138.2	1139.3	1139.2
165°	1158.6	1158.5	1158.7	1158.9	1159.0	1159.3	1160.2	1160.9	1161.8	1162.6	1162.4
167.5°	1176.5	1176.0	1176.0	1176.0	1176.0	1176.0	1177.3	1178.6	1179.8	1181.1	1181.0
170°	1187.0	1186.6	1186.6	1186.6	1186.6	1186.6	1187.9	1189.1	1190.3	1191.6	1191.5
172.5°	1194.6	1194.1	1194.1	1194.1	1194.1	1194.1	1195.3	1196.7	1197.9	1199.1	1199.1
175°	1203.0	1202.6	1202.6	1202.6	1202.6	1202.6	1203.8	1205.1	1206.4	1207.6	1207.5
177.5°	1208.0	1207.6	1207.4	1207.2	1207.1	1206.9	1208.0	1208.9	1209.9	1210.9	1210.9
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



TEST NUMBER: P333599-830

CATALOG NUMBER: S125RDIP-S1090D1035U830-4F0-1E-UDD-A1

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°	15.8	15.5	15.6	15.7	15.6	15.5	15.8	15.2	15.6	15.4	15.2
90°	20.7	21.3	22.0	22.6	22.0	21.3	20.7	20.1	19.2	18.2	17.2
92.5°	43.1	43.5	43.9	44.4	43.9	43.5	43.1	42.6	41.7	40.2	38.9
95°	79.6	80.1	80.5	81.0	80.5	80.1	79.6	79.3	78.3	76.8	75.4
97.5°	122.0	122.2	122.4	122.7	122.4	122.2	122.0	121.7	120.9	119.5	118.1
100°	153.1	153.4	153.9	154.3	153.9	153.4	153.1	152.7	151.5	149.6	147.7
102.5°	184.2	184.7	185.4	186.0	185.4	184.7	184.2	183.6	182.3	180.2	178.1
105°	231.5	232.1	232.7	233.4	232.7	232.1	231.5	230.8	229.9	228.7	227.4
107.5°	282.0	282.0	282.0	281.9	282.0	282.0	282.0	282.1	281.8	281.2	280.5
110°	318.7	318.5	318.3	318.0	318.3	318.5	318.7	318.9	318.7	318.0	317.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	354.6	354.2	353.8	353.5	353.8	354.2	354.6	355.0	355.0	354.7	354.4
115°	409.9	409.7	409.5	409.3	409.5	409.7	409.9	410.2	410.4	410.6	410.8
117.5°	466.4	465.6	464.8	463.9	464.8	465.6	466.4	467.2	467.6	467.4	467.2
120°	504.1	503.2	502.4	501.5	502.4	503.2	504.1	504.9	505.3	505.3	505.3
122.5°	541.2	540.5	539.9	539.2	539.9	540.5	541.2	541.9	542.2	542.4	542.6
125°	596.3	596.1	595.9	595.7	595.9	596.1	596.3	596.4	596.8	597.2	597.7
127.5°	651.1	650.6	650.3	649.9	650.3	650.6	651.1	651.5	651.9	652.1	652.2
130°	687.2	686.8	686.4	686.0	686.4	686.8	687.2	687.7	688.0	688.2	688.3
132.5°	721.6	721.0	720.5	719.8	720.5	721.0	721.6	722.2	722.6	722.8	723.0
135°	775.1	774.2	773.4	772.5	773.4	774.2	775.1	775.9	776.3	776.3	776.3
137.5°	827.3	826.2	825.2	824.2	825.2	826.2	827.3	828.3	828.7	828.4	828.2
140°	860.4	859.3	858.3	857.2	858.3	859.3	860.4	861.4	861.8	861.3	860.9
142.5°	892.0	891.0	889.9	888.8	889.9	891.0	892.0	893.1	893.4	893.2	893.0
145°	938.2	937.5	936.9	936.3	936.9	937.5	938.2	938.8	939.1	939.1	939.1
147.5°	981.0	979.6	978.2	976.8	978.2	979.6	981.0	982.4	982.9	982.4	981.8
150°	1008.1	1007.7	1007.3	1006.8	1007.3	1007.7	1008.1	1008.5	1008.7	1008.7	1008.7
152.5°	1034.0	1033.2	1032.5	1031.7	1032.5	1033.2	1034.0	1034.7	1034.8	1034.3	1033.9
155°	1070.3	1069.1	1068.1	1067.1	1068.1	1069.1	1070.3	1071.3	1071.4	1070.5	1069.7
157.5°	1100.8	1099.4	1098.0	1096.6	1098.0	1099.4	1100.8	1102.1	1102.4	1101.5	1100.7
160°	1120.1	1119.1	1118.0	1116.9	1118.0	1119.1	1120.1	1121.2	1121.2	1120.4	1119.6
162.5°	1137.9	1136.7	1135.5	1134.3	1135.5	1136.7	1137.9	1139.2	1139.3	1138.2	1137.2
165°	1161.2	1159.9	1158.7	1157.4	1158.7	1159.9	1161.2	1162.4	1162.6	1161.8	1160.9
167.5°	1179.8	1178.5	1177.1	1175.8	1177.1	1178.5	1179.8	1181.0	1181.1	1179.8	1178.6
170°	1190.1	1188.5	1187.1	1185.6	1187.1	1188.5	1190.1	1191.5	1191.6	1190.3	1189.1
172.5°	1197.8	1196.6	1195.2	1193.9	1195.2	1196.6	1197.8	1199.1	1199.1	1197.9	1196.7
175°	1206.1	1204.6	1203.1	1201.6	1203.1	1204.6	1206.1	1207.5	1207.6	1206.4	1205.1
177.5°	1209.7	1208.5	1207.3	1206.2	1207.3	1208.5	1209.7	1210.9	1210.9	1209.9	1208.9
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



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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°	15.5	15.3	14.4	15.6	14.3	14.6	14.2	14.4	15.1	15.8	16.5
90°	16.1	15.1	13.6	12.2	10.7	9.2	7.6	5.9	4.2	2.6	0.9
92.5°	37.5	36.1	34.3	32.5	30.7	28.9	27.4	26.3	25.1	23.9	22.8
95°	73.9	72.5	70.4	68.2	66.2	64.1	62.9	62.4	62.0	61.5	61.2
97.5°	116.8	115.4	112.4	109.6	106.7	103.9	102.3	102.2	102.0	101.8	101.6
100°	145.8	143.9	141.3	138.6	135.8	133.1	131.8	131.8	131.8	131.8	131.8
102.5°	176.2	174.1	172.7	171.4	169.9	168.5	167.5	166.6	165.8	164.9	164.1
105°	226.1	224.9	223.7	222.3	221.1	219.9	218.8	217.7	216.6	215.6	214.5
107.5°	279.9	279.3	278.3	277.4	276.4	275.4	274.5	273.4	272.3	271.3	270.2
110°	316.8	316.1	315.6	314.9	314.2	313.7	312.8	311.8	310.8	309.7	308.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	354.1	353.8	353.0	352.2	351.5	350.6	350.0	349.4	348.8	348.4	347.8
115°	411.0	411.2	410.8	410.4	409.9	409.5	408.9	408.1	407.3	406.4	405.6
117.5°	467.1	466.9	466.6	466.2	465.8	465.4	465.1	464.7	464.3	463.9	463.5
120°	505.3	505.3	505.1	504.9	504.6	504.4	503.9	502.8	501.7	500.7	499.6
122.5°	542.8	542.9	542.4	541.9	541.3	540.7	540.4	540.0	539.6	539.2	538.9
125°	598.0	598.5	598.2	598.0	597.9	597.7	596.9	595.7	594.4	593.1	591.9
127.5°	652.4	652.7	652.4	652.1	652.0	651.7	651.2	650.4	649.8	649.0	648.4
130°	688.6	688.8	688.3	688.0	687.6	687.1	686.4	685.3	684.3	683.2	682.2
132.5°	723.2	723.4	723.5	723.6	723.7	723.8	722.9	721.2	719.5	717.8	716.0
135°	776.3	776.3	776.1	775.9	775.7	775.5	774.8	773.5	772.2	771.0	769.8
137.5°	827.9	827.6	827.3	826.8	826.3	825.9	825.0	823.8	822.6	821.3	820.2
140°	860.4	860.1	859.4	858.8	858.2	857.5	856.7	855.6	854.6	853.6	852.5
142.5°	892.7	892.4	891.6	890.9	890.0	889.3	888.4	887.5	886.6	885.8	884.9
145°	939.1	939.1	938.5	937.8	937.3	936.6	935.9	935.0	934.2	933.4	932.6
147.5°	981.4	980.9	980.3	979.9	979.4	978.9	978.4	978.0	977.5	977.0	976.6
150°	1008.7	1008.7	1007.9	1007.1	1006.3	1005.4	1005.1	1005.3	1005.5	1005.7	1005.9
152.5°	1033.3	1032.8	1032.5	1032.2	1031.8	1031.5	1031.1	1030.9	1030.6	1030.3	1030.0
155°	1068.8	1068.0	1067.8	1067.6	1067.4	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
157.5°	1099.9	1099.1	1098.9	1098.6	1098.4	1098.3	1098.3	1098.8	1099.3	1099.8	1100.2
160°	1118.7	1117.9	1117.7	1117.5	1117.3	1117.1	1117.3	1117.9	1118.5	1119.2	1119.7
162.5°	1136.2	1135.2	1135.2	1135.1	1135.1	1135.0	1135.3	1135.7	1136.1	1136.6	1137.1
165°	1160.2	1159.3	1159.0	1158.9	1158.7	1158.5	1158.6	1159.0	1159.4	1159.8	1160.3
167.5°	1177.3	1176.0	1176.0	1176.0	1176.0	1176.0	1176.5	1177.3	1178.2	1178.9	1179.8
170°	1187.9	1186.6	1186.6	1186.6	1186.6	1186.6	1187.0	1187.9	1188.6	1189.5	1190.3
172.5°	1195.3	1194.1	1194.1	1194.1	1194.1	1194.1	1194.6	1195.3	1196.2	1197.0	1197.9
175°	1203.8	1202.6	1202.6	1202.6	1202.6	1202.6	1203.0	1203.8	1204.7	1205.5	1206.4
177.5°	1208.0	1206.9	1207.1	1207.2	1207.4	1207.6	1208.0	1208.6	1209.4	1210.0	1210.7
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



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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°	16.3	15.1	12.9	13.8	14.0	13.9	14.1	13.9	13.7	13.9	14.1
90°	2.6	4.2	5.9	7.6	9.2	10.7	12.2	13.6	15.1	16.1	17.2
92.5°	23.9	25.1	26.3	27.4	28.9	30.7	32.5	34.3	36.1	37.5	38.9
95°	61.5	62.0	62.4	62.9	64.1	66.2	68.2	70.4	72.5	73.9	75.4
97.5°	101.8	102.0	102.2	102.3	103.9	106.7	109.6	112.4	115.4	116.8	118.1
100°	131.8	131.8	131.8	131.8	133.1	135.8	138.6	141.3	143.9	145.8	147.7
102.5°	164.9	165.8	166.6	167.5	168.5	169.9	171.4	172.7	174.1	176.2	178.1
105°	215.6	216.6	217.7	218.8	219.9	221.1	222.3	223.7	224.9	226.1	227.4
107.5°	271.3	272.3	273.4	274.5	275.4	276.4	277.4	278.3	279.3	279.9	280.5
110°	309.7	310.8	311.8	312.8	313.7	314.2	314.9	315.6	316.1	316.8	317.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.4	348.8	349.4	350.0	350.6	351.5	352.2	353.0	353.8	354.1	354.4
115°	406.4	407.3	408.1	408.9	409.5	409.9	410.4	410.8	411.2	411.0	410.8
117.5°	463.9	464.3	464.7	465.1	465.4	465.8	466.2	466.6	466.9	467.1	467.2
120°	500.7	501.7	502.8	503.9	504.4	504.6	504.9	505.1	505.3	505.3	505.3
122.5°	539.2	539.6	540.0	540.4	540.7	541.3	541.9	542.4	542.9	542.8	542.6
125°	593.1	594.4	595.7	596.9	597.7	597.9	598.0	598.2	598.5	598.0	597.7
127.5°	649.0	649.8	650.4	651.2	651.7	652.0	652.1	652.4	652.7	652.4	652.2
130°	683.2	684.3	685.3	686.4	687.1	687.6	688.0	688.3	688.8	688.6	688.3
132.5°	717.8	719.5	721.2	722.9	723.8	723.7	723.6	723.5	723.4	723.2	723.0
135°	771.0	772.2	773.5	774.8	775.5	775.7	775.9	776.1	776.3	776.3	776.3
137.5°	821.3	822.6	823.8	825.0	825.9	826.3	826.8	827.3	827.6	827.9	828.2
140°	853.6	854.6	855.6	856.7	857.5	858.2	858.8	859.4	860.1	860.4	860.9
142.5°	885.8	886.6	887.5	888.4	889.3	890.0	890.9	891.6	892.4	892.7	893.0
145°	933.4	934.2	935.0	935.9	936.6	937.3	937.8	938.5	939.1	939.1	939.1
147.5°	977.0	977.5	978.0	978.4	978.9	979.4	979.9	980.3	980.9	981.4	981.8
150°	1005.7	1005.5	1005.3	1005.1	1005.4	1006.3	1007.1	1007.9	1008.7	1008.7	1008.7
152.5°	1030.3	1030.6	1030.9	1031.1	1031.5	1031.8	1032.2	1032.5	1032.8	1033.3	1033.9
155°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.4	1067.6	1067.8	1068.0	1068.8	1069.7
157.5°	1099.8	1099.3	1098.8	1098.3	1098.3	1098.4	1098.6	1098.9	1099.1	1099.9	1100.7
160°	1119.2	1118.5	1117.9	1117.3	1117.1	1117.3	1117.5	1117.7	1117.9	1118.7	1119.6
162.5°	1136.6	1136.1	1135.7	1135.3	1135.0	1135.1	1135.1	1135.2	1135.2	1136.2	1137.2
165°	1159.8	1159.4	1159.0	1158.6	1158.5	1158.7	1158.9	1159.0	1159.3	1160.2	1160.9
167.5°	1178.9	1178.2	1177.3	1176.5	1176.0	1176.0	1176.0	1176.0	1176.0	1177.3	1178.6
170°	1189.5	1188.6	1187.9	1187.0	1186.6	1186.6	1186.6	1186.6	1186.6	1187.9	1189.1
172.5°	1197.0	1196.2	1195.3	1194.6	1194.1	1194.1	1194.1	1194.1	1194.1	1195.3	1196.7
175°	1205.5	1204.7	1203.8	1203.0	1202.6	1202.6	1202.6	1202.6	1202.6	1203.8	1205.1
177.5°	1210.0	1209.4	1208.6	1208.0	1207.6	1207.4	1207.2	1207.1	1206.9	1208.0	1208.9
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2



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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°	14.8	15.6	14.7	14.3	14.4	15.1	15.7
90°	18.2	19.2	20.1	20.7	21.3	22.0	22.6
92.5°	40.2	41.7	42.6	43.1	43.5	43.9	44.4
95°	76.8	78.3	79.3	79.6	80.1	80.5	81.0
97.5°	119.5	120.9	121.7	122.0	122.2	122.4	122.7
100°	149.6	151.5	152.7	153.1	153.4	153.9	154.3
102.5°	180.2	182.3	183.6	184.2	184.7	185.4	186.0
105°	228.7	229.9	230.8	231.5	232.1	232.7	233.4
107.5°	281.2	281.8	282.1	282.0	282.0	282.0	281.9
110°	318.0	318.7	318.9	318.7	318.5	318.3	318.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	354.7	355.0	355.0	354.6	354.2	353.8	353.5
115°	410.6	410.4	410.2	409.9	409.7	409.5	409.3
117.5°	467.4	467.6	467.2	466.4	465.6	464.8	463.9
120°	505.3	505.3	504.9	504.1	503.2	502.4	501.5
122.5°	542.4	542.2	541.9	541.2	540.5	539.9	539.2
125°	597.2	596.8	596.4	596.3	596.1	595.9	595.7
127.5°	652.1	651.9	651.5	651.1	650.6	650.3	649.9
130°	688.2	688.0	687.7	687.2	686.8	686.4	686.0
132.5°	722.8	722.6	722.2	721.6	721.0	720.5	719.8
135°	776.3	776.3	775.9	775.1	774.2	773.4	772.5
137.5°	828.4	828.7	828.3	827.3	826.2	825.2	824.2
140°	861.3	861.8	861.4	860.4	859.3	858.3	857.2
142.5°	893.2	893.4	893.1	892.0	891.0	889.9	888.8
145°	939.1	939.1	938.8	938.2	937.5	936.9	936.3
147.5°	982.4	982.9	982.4	981.0	979.6	978.2	976.8
150°	1008.7	1008.7	1008.5	1008.1	1007.7	1007.3	1006.8
152.5°	1034.3	1034.8	1034.7	1034.0	1033.2	1032.5	1031.7
155°	1070.5	1071.4	1071.3	1070.3	1069.1	1068.1	1067.1
157.5°	1101.5	1102.4	1102.1	1100.8	1099.4	1098.0	1096.6
160°	1120.4	1121.2	1121.2	1120.1	1119.1	1118.0	1116.9
162.5°	1138.2	1139.3	1139.2	1137.9	1136.7	1135.5	1134.3
165°	1161.8	1162.6	1162.4	1161.2	1159.9	1158.7	1157.4
167.5°	1179.8	1181.1	1181.0	1179.8	1178.5	1177.1	1175.8
170°	1190.3	1191.6	1191.5	1190.1	1188.5	1187.1	1185.6
172.5°	1197.9	1199.1	1199.1	1197.8	1196.6	1195.2	1193.9
175°	1206.4	1207.6	1207.5	1206.1	1204.6	1203.1	1201.6
177.5°	1209.9	1210.9	1210.9	1209.7	1208.5	1207.3	1206.2
180°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2

(END OF REPORT)