

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: P333629-830

Luminaire Tested: **S125RDIP-S1270D1035U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333629-830
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-S1270D1035U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 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: 8013.8 lumens
Efficiency: N/A
Efficacy: 120.0 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

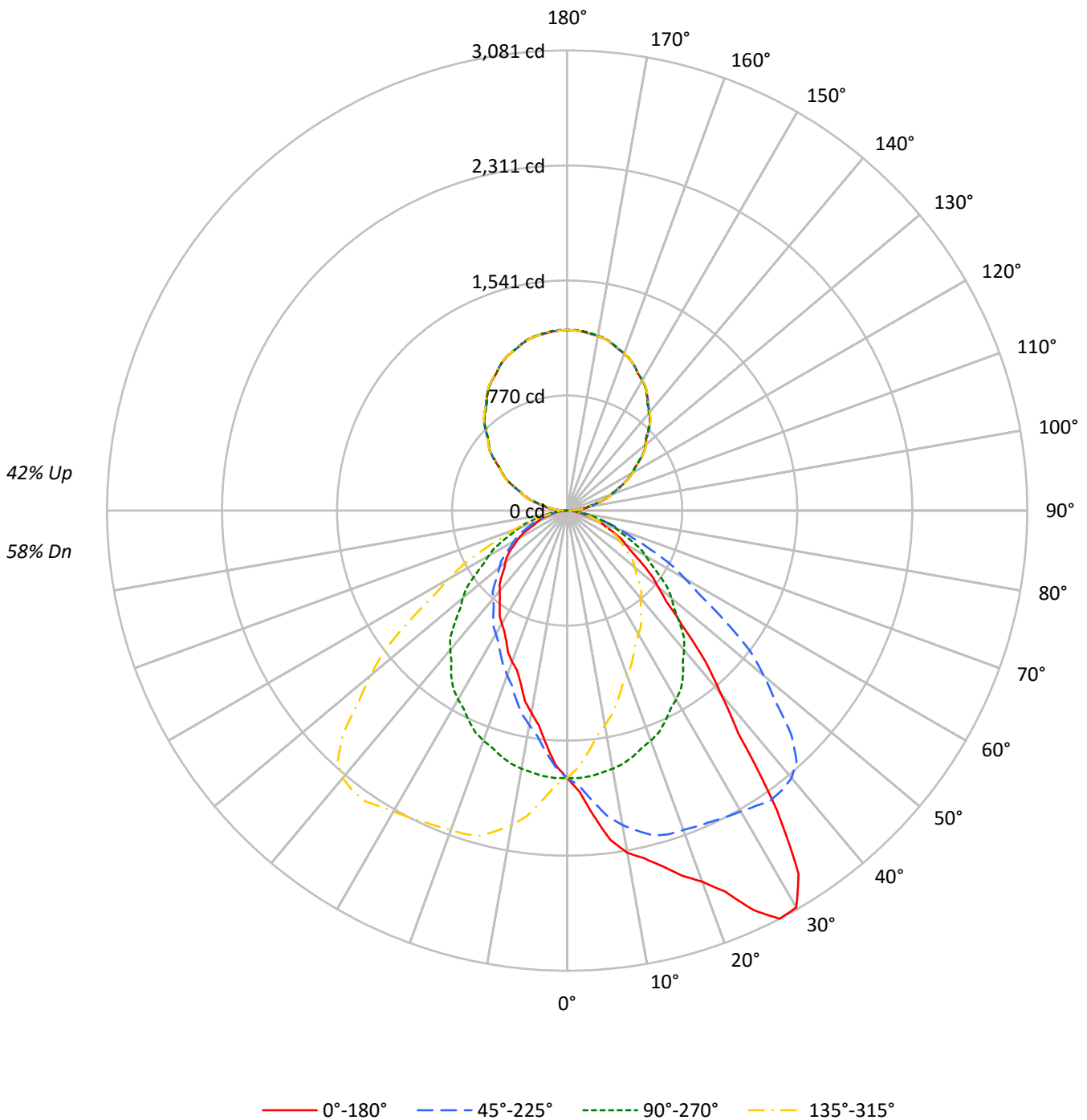
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	51	48	47	42
3	84	74	67	62	78	70	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	37	35	32
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	38	44	38	34	39	34	31	33	30	27	24
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11559	11559	11559	11559
5°	13299	11575	10222	11575
10°	15255	11516	9020	11516
15°	16477	11397	8017	11397
20°	18168	11260	7403	11260
25°	21026	11078	6869	11078
30°	22881	10887	6520	10887
35°	19301	10664	6199	10664
40°	13478	10264	5922	10264
45°	9999	9724	5650	9724
50°	7973	9161	5419	9161
55°	6767	8463	5212	8463
60°	5846	7839	4879	7839
65°	5210	7163	4199	7163
70°	4577	6562	3828	6562
75°	3960	5682	3593	5682
80°	3005	4783	3005	4783
85°	2505	3757	2831	3757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.1
10°-20°	503.0	6.3
20°-30°	797.5	10.0
30°-40°	961.7	12.0
40°-50°	858.8	10.7
50°-60°	658.6	8.2
60°-70°	428.0	5.3
70°-80°	208.1	2.6
80°-90°	52.3	0.7
90°-100°	81.0	1.0
100°-110°	239.1	3.0
110°-120°	405.1	5.1
120°-130°	533.1	6.7
130°-140°	597.3	7.5
140°-150°	585.5	7.3
150°-160°	491.7	6.1
160°-170°	326.9	4.1
170°-180°	114.4	1.4
0°-30°	1472.1	18.4
0°-40°	2433.8	30.4
0°-60°	3951.3	49.3
0°-90°	4639.7	57.9
90°-120°	725.2	9.0
90°-150°	2441.1	30.5
90°-180°	3374.0	42.1
0°-180°	8013.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1790	1790	1790	1790	1790	
5°	2051	1785	1577	1785	2051	205
15°	2464	1705	1199	1705	2464	706
25°	2951	1555	964	1555	2951	1355
35°	2448	1353	786	1353	2448	1479
45°	1095	1065	619	1065	1095	874
55°	601	752	463	752	601	545
65°	341	469	275	469	341	339
75°	159	228	144	228	159	169
85°	34	51	38	51	34	39
90°	23	1	23	1	23	15
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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1882.6	1881.5	1883.9	1877.4	1877.9	1867.9	1867.9	1860.3	1850.3	1842.7	1839.2
5°	2051.3	2052.9	2049.8	2038.8	2031.6	2020.5	2008.0	1985.9	1967.6	1949.9	1936.0
7.5°	2225.1	2226.1	2216.4	2213.0	2194.4	2180.9	2153.1	2123.2	2096.6	2062.8	2036.9
10°	2326.1	2325.4	2315.1	2307.1	2290.8	2270.3	2243.2	2207.8	2174.8	2138.1	2102.8
12.5°	2384.9	2383.0	2379.7	2369.9	2354.9	2336.8	2313.7	2279.0	2238.3	2198.0	2156.8
15°	2464.3	2459.1	2449.6	2437.0	2415.7	2394.4	2368.7	2337.9	2299.0	2253.4	2215.2
17.5°	2562.4	2562.6	2547.9	2530.5	2501.6	2464.0	2424.3	2374.5	2321.6	2271.4	2230.8
20°	2643.5	2641.3	2626.7	2592.8	2559.8	2512.7	2467.2	2406.2	2341.6	2276.1	2225.4
22.5°	2760.0	2754.2	2738.9	2694.5	2643.3	2582.7	2513.0	2438.5	2360.4	2286.1	2219.6
25°	2950.6	2946.2	2916.1	2864.7	2792.7	2699.3	2608.3	2506.1	2393.8	2296.0	2215.2
27.5°	3081.2	3076.3	3053.9	3011.2	2944.8	2846.6	2723.3	2586.8	2446.5	2312.1	2195.5
30°	3068.2	3079.2	3076.3	3056.5	3006.5	2918.3	2804.4	2650.9	2484.1	2326.1	2187.3
32.5°	2883.6	2893.5	2919.3	2958.3	2961.2	2925.9	2840.9	2699.1	2526.4	2346.7	2180.8
35°	2448.1	2461.4	2511.3	2589.9	2692.7	2778.7	2796.3	2720.0	2564.9	2371.7	2171.1
37.5°	1882.1	1954.4	1996.4	2079.2	2234.6	2392.7	2544.8	2600.8	2534.8	2361.4	2155.4
40°	1598.7	1616.4	1691.3	1784.6	1915.4	2080.0	2296.8	2453.2	2458.3	2337.9	2130.7
42.5°	1368.4	1390.7	1442.1	1516.6	1628.6	1793.2	2016.9	2223.5	2319.1	2273.2	2098.4
45°	1094.8	1111.6	1149.1	1206.5	1292.4	1428.3	1620.8	1859.5	2049.2	2123.4	2011.7
47.5°	899.3	908.4	941.0	984.7	1048.3	1147.4	1296.4	1503.6	1731.0	1890.5	1874.7
50°	793.5	803.8	828.8	861.9	915.5	999.2	1118.2	1290.9	1525.3	1720.0	1759.0
52.5°	711.2	719.7	735.3	766.6	810.9	875.2	971.3	1127.5	1338.4	1545.4	1635.5
55°	601.0	606.9	619.3	637.0	672.3	718.6	801.5	909.6	1080.1	1288.7	1421.0
57.5°	510.2	513.1	521.0	537.3	561.8	595.6	655.5	747.1	869.3	1057.2	1203.2
60°	452.6	455.5	465.8	476.8	496.0	526.8	573.8	637.7	755.3	910.3	1058.0
62.5°	406.7	408.5	412.9	424.0	440.7	464.5	501.5	553.6	647.1	783.3	922.8
65°	340.9	341.7	343.1	351.9	362.2	379.8	404.1	440.8	511.3	614.3	737.6
67.5°	277.8	278.7	283.9	287.0	297.7	307.0	321.2	349.3	399.0	468.3	564.3
70°	242.4	241.8	246.9	250.5	254.2	265.2	274.8	297.6	328.4	381.4	461.4
72.5°	209.5	207.6	209.8	211.1	216.0	223.5	233.1	247.0	270.8	307.3	368.5
75°	158.7	159.5	159.5	160.9	164.6	167.5	170.4	177.8	191.1	215.3	248.4
77.5°	111.4	110.2	113.3	113.8	115.9	119.1	121.7	124.6	130.1	140.1	157.1
80°	80.8	80.8	81.5	83.8	83.0	84.5	88.1	91.1	97.7	103.6	109.4
82.5°	62.0	61.5	62.1	62.6	62.5	63.9	65.2	65.8	68.3	71.3	75.4
85°	33.8	33.8	34.5	34.5	35.3	35.3	36.0	36.0	36.0	36.8	37.5
87.5°	17.4	16.8	16.0	15.9	16.4	17.3	16.6	15.7	15.6	15.4	15.6
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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1839.2	1835.0	1827.4	1820.3	1811.6	1803.9	1798.6	1792.2	1784.0	1774.0	1765.7
5°	1920.5	1904.4	1883.1	1864.7	1841.3	1822.9	1803.7	1785.4	1767.0	1743.5	1723.0
7.5°	2010.8	1977.5	1944.9	1904.1	1867.1	1834.0	1802.2	1770.1	1738.6	1705.2	1673.1
10°	2066.1	2025.6	1980.8	1929.4	1882.4	1837.6	1796.4	1756.0	1713.4	1675.9	1635.5
12.5°	2117.8	2065.6	2014.3	1949.4	1892.9	1838.1	1785.8	1735.4	1689.9	1641.2	1597.9
15°	2164.5	2113.1	2055.8	1976.4	1897.8	1831.6	1769.9	1704.6	1647.9	1593.7	1545.1
17.5°	2182.6	2128.6	2062.1	1985.8	1899.9	1816.7	1737.2	1665.5	1598.9	1535.6	1481.0
20°	2175.5	2123.4	2055.0	1982.3	1890.5	1803.7	1717.8	1638.4	1564.2	1497.3	1439.4
22.5°	2158.5	2104.5	2038.5	1961.7	1874.5	1782.6	1690.7	1606.1	1528.3	1459.2	1395.8
25°	2132.9	2059.5	1991.9	1916.8	1833.9	1742.8	1647.9	1554.6	1471.7	1401.1	1332.1
27.5°	2106.3	2014.6	1928.6	1854.2	1766.4	1685.2	1593.7	1498.1	1410.8	1339.0	1268.1
30°	2082.2	1979.3	1884.5	1800.1	1717.0	1639.9	1553.2	1459.9	1370.3	1296.1	1224.1
32.5°	2052.2	1942.9	1838.7	1741.3	1661.2	1584.7	1506.2	1417.0	1329.7	1253.1	1180.0
35°	2014.6	1875.0	1761.9	1658.3	1569.3	1495.2	1424.7	1352.6	1265.2	1185.8	1114.6
37.5°	1965.2	1806.9	1675.9	1563.0	1469.3	1394.8	1339.1	1273.3	1193.4	1117.5	1051.4
40°	1935.2	1757.5	1614.2	1502.5	1404.0	1325.4	1273.3	1217.5	1144.7	1073.5	1007.3
42.5°	1895.3	1712.2	1551.9	1435.5	1336.4	1260.7	1208.1	1159.2	1098.3	1031.1	960.3
45°	1816.9	1624.5	1456.2	1331.3	1231.4	1157.2	1108.0	1064.6	1018.3	956.6	894.8
47.5°	1715.0	1533.0	1356.9	1220.5	1122.7	1053.8	1006.0	971.8	938.7	886.2	826.2
50°	1633.3	1457.7	1285.7	1153.5	1049.1	983.8	939.0	911.8	881.7	833.9	783.9
52.5°	1536.9	1380.1	1211.7	1076.5	978.1	916.8	873.7	846.6	821.7	782.8	735.2
55°	1385.0	1247.5	1093.3	970.5	880.2	818.5	777.3	751.6	737.0	703.9	666.4
57.5°	1209.7	1111.2	975.2	856.9	776.9	716.0	685.8	663.9	647.3	624.0	597.5
60°	1087.4	1018.3	896.4	783.9	710.5	652.4	625.3	606.9	591.4	571.7	551.0
62.5°	963.4	913.1	807.0	710.5	642.9	594.3	568.8	552.2	534.4	521.0	501.1
65°	797.2	752.3	678.9	603.2	540.7	501.8	483.4	468.7	457.7	443.0	429.0
67.5°	620.1	601.9	551.2	499.0	454.2	419.5	403.7	393.4	380.1	371.4	361.7
70°	511.3	502.6	466.6	432.1	390.1	366.6	351.9	347.5	331.4	322.5	315.9
72.5°	415.0	410.9	390.1	366.2	336.7	316.0	302.6	297.6	287.3	280.2	276.0
75°	284.4	285.8	282.1	266.7	255.7	242.4	230.7	227.7	220.5	214.5	210.8
77.5°	179.8	187.4	187.7	186.9	182.5	174.5	169.6	167.4	160.1	158.0	157.1
80°	123.5	131.5	138.8	138.1	136.7	134.5	130.8	128.6	124.9	122.7	121.2
82.5°	82.3	89.8	96.0	99.9	99.6	97.5	94.9	93.9	93.1	91.5	91.2
85°	38.9	40.4	42.6	47.8	51.5	52.1	51.5	50.7	48.4	49.2	50.0
87.5°	15.9	15.6	15.9	15.6	14.7	17.3	18.8	19.0	18.2	17.3	16.5
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: P333629-830

CATALOG NUMBER: S125RDIP-S1270D1035U830-4F0-1E-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: P333629-830

CATALOG NUMBER: S125RDIP-S1270D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1759.8	1751.6	1745.7	1733.9	1725.7	1722.2	1715.7	1713.9	1720.4	1715.7	1715.1
5°	1707.5	1686.2	1669.3	1652.4	1634.0	1622.3	1604.7	1601.7	1597.3	1590.6	1589.2
7.5°	1644.7	1617.0	1595.3	1567.4	1543.0	1523.5	1501.5	1491.0	1485.4	1476.8	1465.4
10°	1602.4	1569.3	1540.0	1512.0	1482.0	1457.7	1435.7	1418.7	1407.7	1397.4	1393.1
12.5°	1560.7	1527.0	1489.4	1455.7	1422.0	1394.8	1370.4	1359.4	1347.2	1335.1	1324.8
15°	1495.9	1451.0	1409.9	1371.0	1342.4	1313.0	1289.4	1273.3	1254.9	1249.8	1229.9
17.5°	1427.1	1383.2	1335.0	1294.0	1260.7	1228.4	1202.6	1184.2	1170.4	1151.5	1142.4
20°	1384.2	1332.1	1285.1	1247.5	1210.8	1172.6	1146.1	1130.8	1117.5	1102.1	1094.8
22.5°	1338.4	1287.4	1239.2	1195.2	1157.9	1120.3	1101.5	1085.5	1070.4	1056.2	1046.5
25°	1271.1	1219.7	1168.9	1123.4	1084.5	1057.2	1035.2	1016.8	1008.8	994.9	984.5
27.5°	1204.5	1149.8	1097.2	1051.8	1021.2	994.4	976.3	961.8	947.2	935.0	926.0
30°	1161.6	1105.8	1048.5	1012.5	980.1	954.4	934.5	920.6	909.6	898.5	891.9
32.5°	1118.7	1061.1	1010.2	971.3	940.8	918.5	898.1	884.8	873.2	860.9	853.2
35°	1049.9	991.2	950.0	911.8	881.7	861.1	847.2	828.0	818.5	809.6	801.5
37.5°	986.0	931.3	886.8	853.3	827.2	806.7	788.6	778.4	766.6	758.7	752.0
40°	939.0	889.0	848.6	813.3	794.3	771.5	754.6	741.3	732.5	722.3	714.9
42.5°	896.6	850.3	811.0	779.3	755.4	736.2	719.9	706.6	695.5	688.2	681.9
45°	836.9	790.6	752.3	722.9	701.0	682.6	665.6	659.0	644.3	635.6	632.6
47.5°	775.0	733.6	696.6	669.6	647.0	629.6	613.8	600.3	592.2	583.5	578.8
50°	733.3	693.6	659.0	632.6	610.6	591.4	576.7	568.0	556.9	548.8	543.0
52.5°	691.5	654.8	620.3	594.9	575.9	556.8	540.4	531.5	521.0	515.9	511.8
55°	631.9	593.0	563.5	538.6	518.7	501.1	485.7	476.8	470.2	465.1	463.6
57.5°	564.3	533.4	506.1	483.6	463.0	446.4	432.9	424.5	418.7	417.9	413.5
60°	520.2	492.3	467.3	443.0	425.4	410.0	398.2	388.7	382.8	382.0	380.6
62.5°	476.1	449.3	426.1	404.8	389.0	374.1	363.0	352.2	348.7	345.1	341.8
65°	410.7	386.4	367.4	350.4	333.6	321.0	310.1	303.4	295.4	291.0	282.9
67.5°	346.5	327.7	309.3	295.1	281.8	269.9	260.8	251.0	245.5	242.0	236.1
70°	304.2	289.5	271.1	255.7	245.4	235.8	228.5	217.4	213.8	210.8	207.9
72.5°	264.2	251.3	235.8	223.4	213.1	204.1	195.6	190.4	186.8	183.8	182.1
75°	207.9	195.5	182.2	173.4	166.1	158.7	154.3	150.6	149.1	148.5	145.4
77.5°	152.7	146.1	135.4	128.5	123.6	120.6	116.7	114.8	114.6	111.4	110.4
80°	116.8	113.1	104.3	101.4	97.7	94.8	92.6	88.9	85.2	83.8	81.5
82.5°	86.8	83.1	79.6	74.9	71.8	70.1	67.9	66.5	67.0	64.9	63.9
85°	46.3	42.6	41.2	40.4	38.9	40.4	39.7	38.9	38.2	37.5	38.2
87.5°	16.2	16.5	16.2	17.7	16.2	17.2	17.3	17.0	17.2	17.3	17.0
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: P333629-830

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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: P333629-830

CATALOG NUMBER: S125RDIP-S1270D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1714.6	1708.1	1706.3	1708.6	1706.3	1708.1	1714.6	1715.1	1715.7	1720.4	1713.9
5°	1581.9	1574.5	1578.2	1576.7	1578.2	1574.5	1581.9	1589.2	1590.6	1597.3	1601.7
7.5°	1465.2	1456.0	1446.3	1449.4	1446.3	1456.0	1465.2	1465.4	1476.8	1485.4	1491.0
10°	1383.5	1376.1	1371.7	1375.4	1371.7	1376.1	1383.5	1393.1	1397.4	1407.7	1418.7
12.5°	1314.8	1310.3	1306.5	1304.9	1306.5	1310.3	1314.8	1324.8	1335.1	1347.2	1359.4
15°	1221.1	1212.3	1208.6	1199.1	1208.6	1212.3	1221.1	1229.9	1249.8	1254.9	1273.3
17.5°	1134.8	1131.9	1122.4	1118.2	1122.4	1131.9	1134.8	1142.4	1151.5	1170.4	1184.2
20°	1083.7	1080.8	1071.2	1077.1	1071.2	1080.8	1083.7	1094.8	1102.1	1117.5	1130.8
22.5°	1041.4	1034.9	1031.8	1030.1	1031.8	1034.9	1041.4	1046.5	1056.2	1070.4	1085.5
25°	981.6	972.0	968.4	963.9	968.4	972.0	981.6	984.5	994.9	1008.8	1016.8
27.5°	921.9	916.8	911.9	910.8	911.9	916.8	921.9	926.0	935.0	947.2	961.8
30°	883.2	878.0	874.3	874.3	874.3	878.0	883.2	891.9	898.5	909.6	920.6
32.5°	848.5	844.5	840.8	840.3	840.8	844.5	848.5	853.2	860.9	873.2	884.8
35°	798.0	792.0	790.6	786.2	790.6	792.0	798.0	801.5	809.6	818.5	828.0
37.5°	745.5	740.6	740.5	740.0	740.5	740.6	745.5	752.0	758.7	766.6	778.4
40°	711.9	708.2	707.6	702.4	707.6	708.2	711.9	714.9	722.3	732.5	741.3
42.5°	676.1	674.2	671.7	669.5	671.7	674.2	676.1	681.9	688.2	695.5	706.6
45°	627.5	622.3	622.3	618.6	622.3	622.3	627.5	632.6	635.6	644.3	659.0
47.5°	577.2	573.3	573.6	569.9	573.6	573.3	577.2	578.8	583.5	592.2	600.3
50°	543.7	541.5	540.7	539.3	540.7	541.5	543.7	543.0	548.8	556.9	568.0
52.5°	510.2	509.2	512.0	508.7	512.0	509.2	510.2	511.8	515.9	521.0	531.5
55°	465.1	462.9	467.3	462.9	467.3	462.9	465.1	463.6	465.1	470.2	476.8
57.5°	413.2	411.1	415.1	412.9	415.1	411.1	413.2	413.5	417.9	418.7	424.5
60°	379.1	374.8	376.9	377.7	376.9	374.8	379.1	380.6	382.0	382.8	388.7
62.5°	338.6	335.9	337.5	334.1	337.5	335.9	338.6	341.8	345.1	348.7	352.2
65°	281.4	279.2	276.3	274.8	276.3	279.2	281.4	282.9	291.0	295.4	303.4
67.5°	236.4	231.1	231.0	232.1	231.0	231.1	236.4	236.1	242.0	245.5	251.0
70°	203.5	203.5	202.7	202.7	202.7	203.5	203.5	207.9	210.8	213.8	217.4
72.5°	180.6	180.0	178.7	178.1	178.7	180.0	180.6	182.1	183.8	186.8	190.4
75°	145.4	146.2	144.8	144.0	144.8	146.2	145.4	145.4	148.5	149.1	150.6
77.5°	107.4	104.3	105.9	104.3	105.9	104.3	107.4	110.4	111.4	114.6	114.8
80°	81.5	80.8	83.0	80.8	83.0	80.8	81.5	81.5	83.8	85.2	88.9
82.5°	64.5	63.8	64.8	63.2	64.8	63.8	64.5	63.9	64.9	67.0	66.5
85°	38.9	38.2	37.5	38.2	37.5	38.2	38.9	38.2	37.5	38.2	38.9
87.5°	17.6	17.2	17.3	17.4	17.3	17.2	17.6	17.0	17.3	17.2	17.0
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



TEST NUMBER: P333629-830

CATALOG NUMBER: S125RDIP-S1270D1035U830-4F0-1E-UDD-A1

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



TEST NUMBER: P333629-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1715.7	1722.2	1725.7	1733.9	1745.7	1751.6	1759.8	1765.7	1774.0	1784.0	1792.2
5°	1604.7	1622.3	1634.0	1652.4	1669.3	1686.2	1707.5	1723.0	1743.5	1767.0	1785.4
7.5°	1501.5	1523.5	1543.0	1567.4	1595.3	1617.0	1644.7	1673.1	1705.2	1738.6	1770.1
10°	1435.7	1457.7	1482.0	1512.0	1540.0	1569.3	1602.4	1635.5	1675.9	1713.4	1756.0
12.5°	1370.4	1394.8	1422.0	1455.7	1489.4	1527.0	1560.7	1597.9	1641.2	1689.9	1735.4
15°	1289.4	1313.0	1342.4	1371.0	1409.9	1451.0	1495.9	1545.1	1593.7	1647.9	1704.6
17.5°	1202.6	1228.4	1260.7	1294.0	1335.0	1383.2	1427.1	1481.0	1535.6	1598.9	1665.5
20°	1146.1	1172.6	1210.8	1247.5	1285.1	1332.1	1384.2	1439.4	1497.3	1564.2	1638.4
22.5°	1101.5	1120.3	1157.9	1195.2	1239.2	1287.4	1338.4	1395.8	1459.2	1528.3	1606.1
25°	1035.2	1057.2	1084.5	1123.4	1168.9	1219.7	1271.1	1332.1	1401.1	1471.7	1554.6
27.5°	976.3	994.4	1021.2	1051.8	1097.2	1149.8	1204.5	1268.1	1339.0	1410.8	1498.1
30°	934.5	954.4	980.1	1012.5	1048.5	1105.8	1161.6	1224.1	1296.1	1370.3	1459.9
32.5°	898.1	918.5	940.8	971.3	1010.2	1061.1	1118.7	1180.0	1253.1	1329.7	1417.0
35°	847.2	861.1	881.7	911.8	950.0	991.2	1049.9	1114.6	1185.8	1265.2	1352.6
37.5°	788.6	806.7	827.2	853.3	886.8	931.3	986.0	1051.4	1117.5	1193.4	1273.3
40°	754.6	771.5	794.3	813.3	848.6	889.0	939.0	1007.3	1073.5	1144.7	1217.5
42.5°	719.9	736.2	755.4	779.3	811.0	850.3	896.6	960.3	1031.1	1098.3	1159.2
45°	665.6	682.6	701.0	722.9	752.3	790.6	836.9	894.8	956.6	1018.3	1064.6
47.5°	613.8	629.6	647.0	669.6	696.6	733.6	775.0	826.2	886.2	938.7	971.8
50°	576.7	591.4	610.6	632.6	659.0	693.6	733.3	783.9	833.9	881.7	911.8
52.5°	540.4	556.8	575.9	594.9	620.3	654.8	691.5	735.2	782.8	821.7	846.6
55°	485.7	501.1	518.7	538.6	563.5	593.0	631.9	666.4	703.9	737.0	751.6
57.5°	432.9	446.4	463.0	483.6	506.1	533.4	564.3	597.5	624.0	647.3	663.9
60°	398.2	410.0	425.4	443.0	467.3	492.3	520.2	551.0	571.7	591.4	606.9
62.5°	363.0	374.1	389.0	404.8	426.1	449.3	476.1	501.1	521.0	534.4	552.2
65°	310.1	321.0	333.6	350.4	367.4	386.4	410.7	429.0	443.0	457.7	468.7
67.5°	260.8	269.9	281.8	295.1	309.3	327.7	346.5	361.7	371.4	380.1	393.4
70°	228.5	235.8	245.4	255.7	271.1	289.5	304.2	315.9	322.5	331.4	347.5
72.5°	195.6	204.1	213.1	223.4	235.8	251.3	264.2	276.0	280.2	287.3	297.6
75°	154.3	158.7	166.1	173.4	182.2	195.5	207.9	210.8	214.5	220.5	227.7
77.5°	116.7	120.6	123.6	128.5	135.4	146.1	152.7	157.1	158.0	160.1	167.4
80°	92.6	94.8	97.7	101.4	104.3	113.1	116.8	121.2	122.7	124.9	128.6
82.5°	67.9	70.1	71.8	74.9	79.6	83.1	86.8	91.2	91.5	93.1	93.9
85°	39.7	40.4	38.9	40.4	41.2	42.6	46.3	50.0	49.2	48.4	50.7
87.5°	17.3	17.2	16.2	17.7	16.2	16.5	16.2	16.5	17.3	18.2	19.0
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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1798.6	1803.9	1811.6	1820.3	1827.4	1835.0	1839.2	1839.2	1842.7	1850.3	1860.3
5°	1803.7	1822.9	1841.3	1864.7	1883.1	1904.4	1920.5	1936.0	1949.9	1967.6	1985.9
7.5°	1802.2	1834.0	1867.1	1904.1	1944.9	1977.5	2010.8	2036.9	2062.8	2096.6	2123.2
10°	1796.4	1837.6	1882.4	1929.4	1980.8	2025.6	2066.1	2102.8	2138.1	2174.8	2207.8
12.5°	1785.8	1838.1	1892.9	1949.4	2014.3	2065.6	2117.8	2156.8	2198.0	2238.3	2279.0
15°	1769.9	1831.6	1897.8	1976.4	2055.8	2113.1	2164.5	2215.2	2253.4	2299.0	2337.9
17.5°	1737.2	1816.7	1899.9	1985.8	2062.1	2128.6	2182.6	2230.8	2271.4	2321.6	2374.5
20°	1717.8	1803.7	1890.5	1982.3	2055.0	2123.4	2175.5	2225.4	2276.1	2341.6	2406.2
22.5°	1690.7	1782.6	1874.5	1961.7	2038.5	2104.5	2158.5	2219.6	2286.1	2360.4	2438.5
25°	1647.9	1742.8	1833.9	1916.8	1991.9	2059.5	2132.9	2215.2	2296.0	2393.8	2506.1
27.5°	1593.7	1685.2	1766.4	1854.2	1928.6	2014.6	2106.3	2195.5	2312.1	2446.5	2586.8
30°	1553.2	1639.9	1717.0	1800.1	1884.5	1979.3	2082.2	2187.3	2326.1	2484.1	2650.9
32.5°	1506.2	1584.7	1661.2	1741.3	1838.7	1942.9	2052.2	2180.8	2346.7	2526.4	2699.1
35°	1424.7	1495.2	1569.3	1658.3	1761.9	1875.0	2014.6	2171.1	2371.7	2564.9	2720.0
37.5°	1339.1	1394.8	1469.3	1563.0	1675.9	1806.9	1965.2	2155.4	2361.4	2534.8	2600.8
40°	1273.3	1325.4	1404.0	1502.5	1614.2	1757.5	1935.2	2130.7	2337.9	2458.3	2453.2
42.5°	1208.1	1260.7	1336.4	1435.5	1551.9	1712.2	1895.3	2098.4	2273.2	2319.1	2223.5
45°	1108.0	1157.2	1231.4	1331.3	1456.2	1624.5	1816.9	2011.7	2123.4	2049.2	1859.5
47.5°	1006.0	1053.8	1122.7	1220.5	1356.9	1533.0	1715.0	1874.7	1890.5	1731.0	1503.6
50°	939.0	983.8	1049.1	1153.5	1285.7	1457.7	1633.3	1759.0	1720.0	1525.3	1290.9
52.5°	873.7	916.8	978.1	1076.5	1211.7	1380.1	1536.9	1635.5	1545.4	1338.4	1127.5
55°	777.3	818.5	880.2	970.5	1093.3	1247.5	1385.0	1421.0	1288.7	1080.1	909.6
57.5°	685.8	716.0	776.9	856.9	975.2	1111.2	1209.7	1203.2	1057.2	869.3	747.1
60°	625.3	652.4	710.5	783.9	896.4	1018.3	1087.4	1058.0	910.3	755.3	637.7
62.5°	568.8	594.3	642.9	710.5	807.0	913.1	963.4	922.8	783.3	647.1	553.6
65°	483.4	501.8	540.7	603.2	678.9	752.3	797.2	737.6	614.3	511.3	440.8
67.5°	403.7	419.5	454.2	499.0	551.2	601.9	620.1	564.3	468.3	399.0	349.3
70°	351.9	366.6	390.1	432.1	466.6	502.6	511.3	461.4	381.4	328.4	297.6
72.5°	302.6	316.0	336.7	366.2	390.1	410.9	415.0	368.5	307.3	270.8	247.0
75°	230.7	242.4	255.7	266.7	282.1	285.8	284.4	248.4	215.3	191.1	177.8
77.5°	169.6	174.5	182.5	186.9	187.7	187.4	179.8	157.1	140.1	130.1	124.6
80°	130.8	134.5	136.7	138.1	138.8	131.5	123.5	109.4	103.6	97.7	91.1
82.5°	94.9	97.5	99.6	99.9	96.0	89.8	82.3	75.4	71.3	68.3	65.8
85°	51.5	52.1	51.5	47.8	42.6	40.4	38.9	37.5	36.8	36.0	36.0
87.5°	18.8	17.3	14.7	15.6	15.9	15.6	15.9	15.6	15.4	15.6	15.7
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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1867.9	1867.9	1877.9	1877.4	1883.9	1881.5	1882.6
5°	2008.0	2020.5	2031.6	2038.8	2049.8	2052.9	2051.3
7.5°	2153.1	2180.9	2194.4	2213.0	2216.4	2226.1	2225.1
10°	2243.2	2270.3	2290.8	2307.1	2315.1	2325.4	2326.1
12.5°	2313.7	2336.8	2354.9	2369.9	2379.7	2383.0	2384.9
15°	2368.7	2394.4	2415.7	2437.0	2449.6	2459.1	2464.3
17.5°	2424.3	2464.0	2501.6	2530.5	2547.9	2562.6	2562.4
20°	2467.2	2512.7	2559.8	2592.8	2626.7	2641.3	2643.5
22.5°	2513.0	2582.7	2643.3	2694.5	2738.9	2754.2	2760.0
25°	2608.3	2699.3	2792.7	2864.7	2916.1	2946.2	2950.6
27.5°	2723.3	2846.6	2944.8	3011.2	3053.9	3076.3	3081.2
30°	2804.4	2918.3	3006.5	3056.5	3076.3	3079.2	3068.2
32.5°	2840.9	2925.9	2961.2	2958.3	2919.3	2893.5	2883.6
35°	2796.3	2778.7	2692.7	2589.9	2511.3	2461.4	2448.1
37.5°	2544.8	2392.7	2234.6	2079.2	1996.4	1954.4	1882.1
40°	2296.8	2080.0	1915.4	1784.6	1691.3	1616.4	1598.7
42.5°	2016.9	1793.2	1628.6	1516.6	1442.1	1390.7	1368.4
45°	1620.8	1428.3	1292.4	1206.5	1149.1	1111.6	1094.8
47.5°	1296.4	1147.4	1048.3	984.7	941.0	908.4	899.3
50°	1118.2	999.2	915.5	861.9	828.8	803.8	793.5
52.5°	971.3	875.2	810.9	766.6	735.3	719.7	711.2
55°	801.5	718.6	672.3	637.0	619.3	606.9	601.0
57.5°	655.5	595.6	561.8	537.3	521.0	513.1	510.2
60°	573.8	526.8	496.0	476.8	465.8	455.5	452.6
62.5°	501.5	464.5	440.7	424.0	412.9	408.5	406.7
65°	404.1	379.8	362.2	351.9	343.1	341.7	340.9
67.5°	321.2	307.0	297.7	287.0	283.9	278.7	277.8
70°	274.8	265.2	254.2	250.5	246.9	241.8	242.4
72.5°	233.1	223.5	216.0	211.1	209.8	207.6	209.5
75°	170.4	167.5	164.6	160.9	159.5	159.5	158.7
77.5°	121.7	119.1	115.9	113.8	113.3	110.2	111.4
80°	88.1	84.5	83.0	83.8	81.5	80.8	80.8
82.5°	65.2	63.9	62.5	62.6	62.1	61.5	62.0
85°	36.0	35.3	35.3	34.5	34.5	33.8	33.8
87.5°	16.6	17.3	16.4	15.9	16.0	16.8	17.4
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)