

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: P332348-830

Luminaire Tested: **S123RDIP-S1000D1025U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332348-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D1025U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7595.9 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

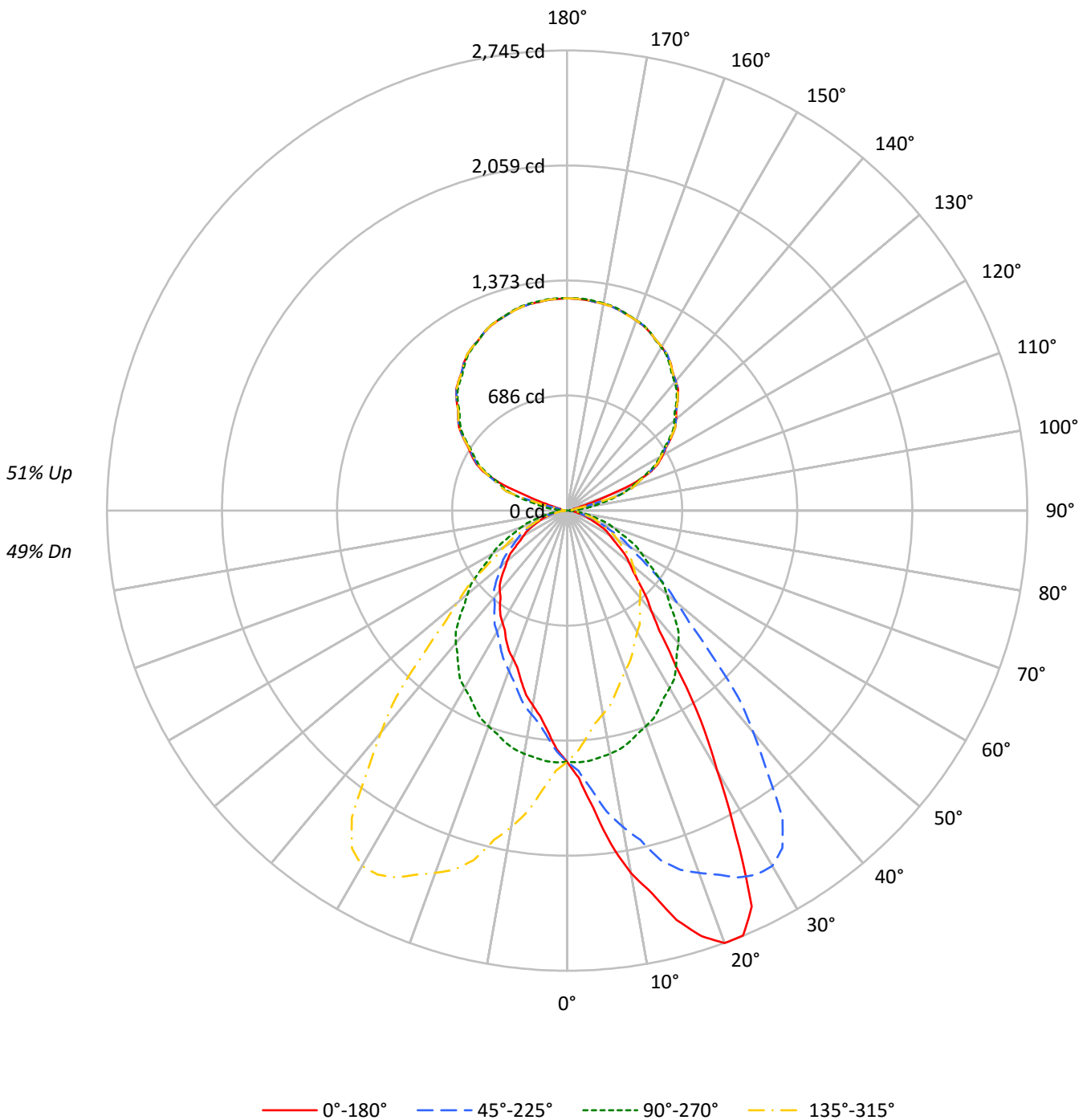
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	60	58	50	49	48	43
2	90	83	77	72	83	77	72	67	65	61	58	54	52	50	45	43	41	37
3	82	73	66	61	76	68	62	57	58	53	50	49	45	43	40	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	58	51	45	64	54	47	42	47	41	37	39	35	32	33	30	28	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	24	22
7	59	48	40	34	55	44	38	33	38	33	29	33	29	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.9
10°-20°	460.3	6.1
20°-30°	723.2	9.5
30°-40°	754.5	9.9
40°-50°	645.7	8.5
50°-60°	492.2	6.5
60°-70°	315.5	4.2
70°-80°	151.8	2.0
80°-90°	43.7	0.6
90°-100°	46.0	0.6
100°-110°	219.4	2.9
110°-120°	527.0	6.9
120°-130°	671.1	8.8
130°-140°	717.1	9.4
140°-150°	670.6	8.8
150°-160°	540.9	7.1
160°-170°	349.1	4.6
170°-180°	120.3	1.6
0°-30°	1330.9	17.5
0°-40°	2085.5	27.5
0°-60°	3223.3	42.4
0°-90°	3734.3	49.2
90°-120°	792.5	10.4
90°-150°	2851.3	37.5
90°-180°	3862.0	50.8
0°-180°	7595.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	26
90°	28	1	28	1	28	13
95°	36	57	36	57	36	30
105°	41	280	41	280	41	95
115°	553	526	553	526	553	511
125°	756	741	756	741	756	675
135°	932	923	932	923	932	719
145°	1075	1065	1075	1065	1075	671
155°	1171	1173	1171	1173	1171	540
165°	1234	1237	1234	1237	1234	349
175°	1262	1266	1262	1266	1262	120
180°	1266	1266	1266	1266	1266	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	10.7	11.7	10.7	11.0	10.9	11.3	11.2	11.0	11.9	11.2	11.1
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8	25.4	24.1	22.1
95°	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0	30.6	29.1	26.9
97.5°	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6	32.0	30.3	45.3
100°	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4	32.7	31.0	63.6
102.5°	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6	56.7	61.9	97.6
105°	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1	169.0	206.0	224.9
107.5°	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4	350.5	377.7	374.7
110°	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5	417.4	424.3	422.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9	471.8	471.7	469.4
115°	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2	542.2	540.0	538.1
117.5°	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6	607.9	606.2	605.3
120°	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5	650.8	649.1	648.6
122.5°	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4	693.2	692.0	691.3
125°	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5	753.1	752.6	751.8
127.5°	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7	812.0	811.3	810.3
130°	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4	847.5	846.7	845.8
132.5°	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2	881.5	880.6	880.0
135°	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6	932.9	932.4	931.5
137.5°	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3	978.3	977.3	976.9
140°	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3	1007.5	1006.6	1006.1
142.5°	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9	1035.2	1034.5	1033.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3	1073.8	1073.5	1073.0
147.5°	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7	1108.3	1107.9	1107.5
150°	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8	1129.4	1129.0	1128.5
152.5°	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5	1147.7	1147.0	1146.8
155°	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3	1173.3	1172.2	1172.1
157.5°	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7	1195.5	1194.2	1194.5
160°	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6	1208.3	1207.0	1207.2
162.5°	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2	1219.7	1218.3	1218.5
165°	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7	1235.0	1233.4	1233.6
167.5°	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4	1245.4
170°	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2	1252.2
172.5°	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1	1258.4	1256.7	1256.5
175°	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5	1264.0	1262.5	1262.3
177.5°	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4	1266.1	1264.8	1264.6
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	11.6	10.6	11.0	10.6	11.7	11.8	14.4	16.6	17.5	15.9	16.3
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5	16.9	16.3	15.7
95°	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4	48.8	40.2	31.7
97.5°	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4	111.5	107.6	103.8
100°	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0	163.2	167.4	171.5
102.5°	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7	211.7	214.7	217.7
105°	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3	282.7	284.9	287.3
107.5°	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0	357.9	359.7	361.6
110°	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4	408.1	409.7	411.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6	456.1	457.6	459.1
115°	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9	527.2	528.4	529.7
117.5°	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9	596.5	598.0	599.6
120°	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8	639.7	641.6	643.5
122.5°	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6	683.1	684.6	686.2
125°	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3	743.0	744.7	746.4
127.5°	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3	801.0	802.7	804.3
130°	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5	837.1	838.8	840.5
132.5°	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1	871.8	873.4	875.1
135°	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9	924.2	925.4	926.7
137.5°	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1	969.7	971.3	972.9
140°	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2	999.5	1000.7	1001.9
142.5°	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1	1027.3	1028.5	1029.8
145°	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0	1066.5	1067.9	1069.4
147.5°	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6	1102.7	1103.6	1104.6
150°	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3	1124.9	1125.5	1126.1
152.5°	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5	1144.9	1145.2	1145.5
155°	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2	1172.7	1172.3	1172.0
157.5°	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3	1195.3	1195.3	1195.2
160°	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9	1208.7	1208.5	1208.3
162.5°	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7	1221.2	1220.6	1220.1
165°	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2	1236.5	1235.9	1235.3
167.5°	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2	1248.4	1247.5	1246.7
170°	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9	1255.1	1254.3	1253.5
172.5°	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5	1259.5	1258.5	1257.4
175°	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3	1265.3	1264.2	1263.2
177.5°	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8	1267.0	1266.1	1265.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	16.2	18.3	19.3	20.4	21.4	21.5	22.1	22.3	23.0	23.2	23.3
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8	28.1	29.4	30.3
95°	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0	33.6	35.1	35.7
97.5°	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6	35.3	36.9	37.9
100°	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4	36.1	37.7	38.6
102.5°	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6	46.4	41.2	38.7
105°	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1	95.0	58.1	39.7
107.5°	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4	296.2	269.1	241.6
110°	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5	403.6	396.7	378.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9	472.1	472.2	469.1
115°	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2	546.3	548.4	549.9
117.5°	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6	611.2	612.9	613.9
120°	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5	654.1	655.8	656.7
122.5°	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4	695.6	696.7	697.4
125°	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5	753.8	754.3	754.7
127.5°	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7	813.3	814.0	814.2
130°	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4	849.2	850.1	850.3
132.5°	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2	883.1	883.9	884.0
135°	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6	934.2	934.8	934.8
137.5°	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3	980.3	981.3	981.6
140°	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3	1009.2	1010.0	1010.2
142.5°	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9	1036.5	1037.2	1037.2
145°	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3	1074.7	1075.2	1075.3
147.5°	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7	1109.1	1109.6	1109.3
150°	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8	1130.2	1130.7	1130.5
152.5°	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5	1149.2	1150.0	1149.9
155°	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3	1175.4	1176.4	1176.3
157.5°	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7	1198.0	1199.3	1199.1
160°	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6	1210.8	1212.0	1211.9
162.5°	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2	1222.6	1224.0	1224.1
165°	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7	1238.4	1240.1	1240.2
167.5°	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1
170°	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9
172.5°	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1	1261.7	1263.4	1263.3
175°	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5	1267.0	1268.4	1268.3
177.5°	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4	1268.9	1270.2	1270.0
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P332348-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	24.4	23.5	23.6	24.1	23.6	23.5	24.4	23.3	23.2	23.0	22.3
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	30.4	30.7	31.0	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0
97.5°	38.2	38.4	38.5	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6
100°	38.9	39.1	39.3	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4
102.5°	39.1	39.5	39.9	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6
105°	40.2	40.5	41.0	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1
107.5°	213.7	185.8	157.9	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4
110°	348.4	318.5	288.6	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5



TEST NUMBER: P332348-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	462.8	456.5	450.2	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9
115°	550.6	551.5	552.3	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2
117.5°	614.1	614.2	614.3	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6
120°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5
122.5°	697.6	697.8	697.9	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4
125°	755.2	755.5	756.0	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5
127.5°	813.7	813.3	812.8	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7
130°	849.9	849.4	849.0	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4
132.5°	883.4	882.9	882.3	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2
135°	934.2	933.6	932.9	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6
137.5°	981.2	980.8	980.3	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3
140°	1009.7	1009.4	1009.0	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3
142.5°	1036.6	1036.0	1035.5	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3
147.5°	1108.3	1107.4	1106.4	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7
150°	1129.9	1129.3	1128.6	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8
152.5°	1149.0	1148.0	1147.1	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5
155°	1175.1	1173.8	1172.5	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3
157.5°	1197.4	1195.8	1194.2	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7
160°	1210.5	1209.0	1207.6	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6
162.5°	1222.8	1221.4	1220.2	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2
165°	1238.7	1237.3	1235.8	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7
167.5°	1250.5	1248.8	1247.1	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8
170°	1257.3	1255.6	1253.9	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6
172.5°	1261.5	1259.6	1257.8	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1
175°	1266.6	1265.0	1263.3	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5
177.5°	1268.3	1266.7	1265.0	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	22.1	21.5	21.4	20.4	19.3	18.3	16.2	16.3	15.9	17.5	16.6
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	25.4	24.1	22.1	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5
95°	30.6	29.1	26.9	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4
97.5°	32.0	30.3	45.3	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4
100°	32.7	31.0	63.6	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0
102.5°	56.7	61.9	97.6	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7
105°	169.0	206.0	224.9	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3
107.5°	350.5	377.7	374.7	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0
110°	417.4	424.3	422.0	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4



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CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	471.8	471.7	469.4	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6
115°	542.2	540.0	538.1	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9
117.5°	607.9	606.2	605.3	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9
120°	650.8	649.1	648.6	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8
122.5°	693.2	692.0	691.3	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6
125°	753.1	752.6	751.8	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3
127.5°	812.0	811.3	810.3	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3
130°	847.5	846.7	845.8	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5
132.5°	881.5	880.6	880.0	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1
135°	932.9	932.4	931.5	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9
137.5°	978.3	977.3	976.9	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1
140°	1007.5	1006.6	1006.1	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2
142.5°	1035.2	1034.5	1033.9	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1
145°	1073.8	1073.5	1073.0	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0
147.5°	1108.3	1107.9	1107.5	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6
150°	1129.4	1129.0	1128.5	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3
152.5°	1147.7	1147.0	1146.8	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5
155°	1173.3	1172.2	1172.1	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2
157.5°	1195.5	1194.2	1194.5	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3
160°	1208.3	1207.0	1207.2	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9
162.5°	1219.7	1218.3	1218.5	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7
165°	1235.0	1233.4	1233.6	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2
167.5°	1247.1	1245.4	1245.4	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2
170°	1253.9	1252.2	1252.2	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9
172.5°	1258.4	1256.7	1256.5	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5
175°	1264.0	1262.5	1262.3	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3
177.5°	1266.1	1264.8	1264.6	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.4	11.8	11.7	10.6	11.0	10.6	11.6	11.1	11.2	11.9	11.0
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	16.9	16.3	15.7	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8
95°	48.8	40.2	31.7	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0
97.5°	111.5	107.6	103.8	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6
100°	163.2	167.4	171.5	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4
102.5°	211.7	214.7	217.7	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6
105°	282.7	284.9	287.3	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1
107.5°	357.9	359.7	361.6	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4
110°	408.1	409.7	411.4	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.1	457.6	459.1	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9
115°	527.2	528.4	529.7	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2
117.5°	596.5	598.0	599.6	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6
120°	639.7	641.6	643.5	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5
122.5°	683.1	684.6	686.2	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4
125°	743.0	744.7	746.4	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5
127.5°	801.0	802.7	804.3	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7
130°	837.1	838.8	840.5	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4
132.5°	871.8	873.4	875.1	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2
135°	924.2	925.4	926.7	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6
137.5°	969.7	971.3	972.9	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3
140°	999.5	1000.7	1001.9	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3
142.5°	1027.3	1028.5	1029.8	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9
145°	1066.5	1067.9	1069.4	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3
147.5°	1102.7	1103.6	1104.6	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7
150°	1124.9	1125.5	1126.1	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8
152.5°	1144.9	1145.2	1145.5	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5
155°	1172.7	1172.3	1172.0	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3
157.5°	1195.3	1195.3	1195.2	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7
160°	1208.7	1208.5	1208.3	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6
162.5°	1221.2	1220.6	1220.1	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2
165°	1236.5	1235.9	1235.3	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7
167.5°	1248.4	1247.5	1246.7	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8
170°	1255.1	1254.3	1253.5	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6
172.5°	1259.5	1258.5	1257.4	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1
175°	1265.3	1264.2	1263.2	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5
177.5°	1267.0	1266.1	1265.3	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	11.2	11.3	10.9	11.0	10.7	11.7	10.7
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	28.1	29.4	30.3	30.4	30.7	31.0	31.2
95°	33.6	35.1	35.7	35.7	35.7	35.7	35.7
97.5°	35.3	36.9	37.9	38.2	38.4	38.5	38.7
100°	36.1	37.7	38.6	38.9	39.1	39.3	39.5
102.5°	46.4	41.2	38.7	39.1	39.5	39.9	40.2
105°	95.0	58.1	39.7	40.2	40.5	41.0	41.4
107.5°	296.2	269.1	241.6	213.7	185.8	157.9	130.0
110°	403.6	396.7	378.3	348.4	318.5	288.6	258.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	472.1	472.2	469.1	462.8	456.5	450.2	443.8
115°	546.3	548.4	549.9	550.6	551.5	552.3	553.2
117.5°	611.2	612.9	613.9	614.1	614.2	614.3	614.5
120°	654.1	655.8	656.7	656.7	656.7	656.7	656.7
122.5°	695.6	696.7	697.4	697.6	697.8	697.9	698.0
125°	753.8	754.3	754.7	755.2	755.5	756.0	756.4
127.5°	813.3	814.0	814.2	813.7	813.3	812.8	812.5
130°	849.2	850.1	850.3	849.9	849.4	849.0	848.6
132.5°	883.1	883.9	884.0	883.4	882.9	882.3	881.7
135°	934.2	934.8	934.8	934.2	933.6	932.9	932.4
137.5°	980.3	981.3	981.6	981.2	980.8	980.3	980.0
140°	1009.2	1010.0	1010.2	1009.7	1009.4	1009.0	1008.5
142.5°	1036.5	1037.2	1037.2	1036.6	1036.0	1035.5	1034.9
145°	1074.7	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3
147.5°	1109.1	1109.6	1109.3	1108.3	1107.4	1106.4	1105.4
150°	1130.2	1130.7	1130.5	1129.9	1129.3	1128.6	1128.0
152.5°	1149.2	1150.0	1149.9	1149.0	1148.0	1147.1	1146.0
155°	1175.4	1176.4	1176.3	1175.1	1173.8	1172.5	1171.3
157.5°	1198.0	1199.3	1199.1	1197.4	1195.8	1194.2	1192.6
160°	1210.8	1212.0	1211.9	1210.5	1209.0	1207.6	1206.1
162.5°	1222.6	1224.0	1224.1	1222.8	1221.4	1220.2	1218.9
165°	1238.4	1240.1	1240.2	1238.7	1237.3	1235.8	1234.4
167.5°	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4
170°	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2
172.5°	1261.7	1263.4	1263.3	1261.5	1259.6	1257.8	1255.9
175°	1267.0	1268.4	1268.3	1266.6	1265.0	1263.3	1261.6
177.5°	1268.9	1270.2	1270.0	1268.3	1266.7	1265.0	1263.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3

(END OF REPORT)