

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: P332378-935

Luminaire Tested: **S123RDIP-S1165D1025U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332378-935
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-S1165D1025U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 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: 7466.8 lumens
Efficiency: N/A
Efficacy: 111.8 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

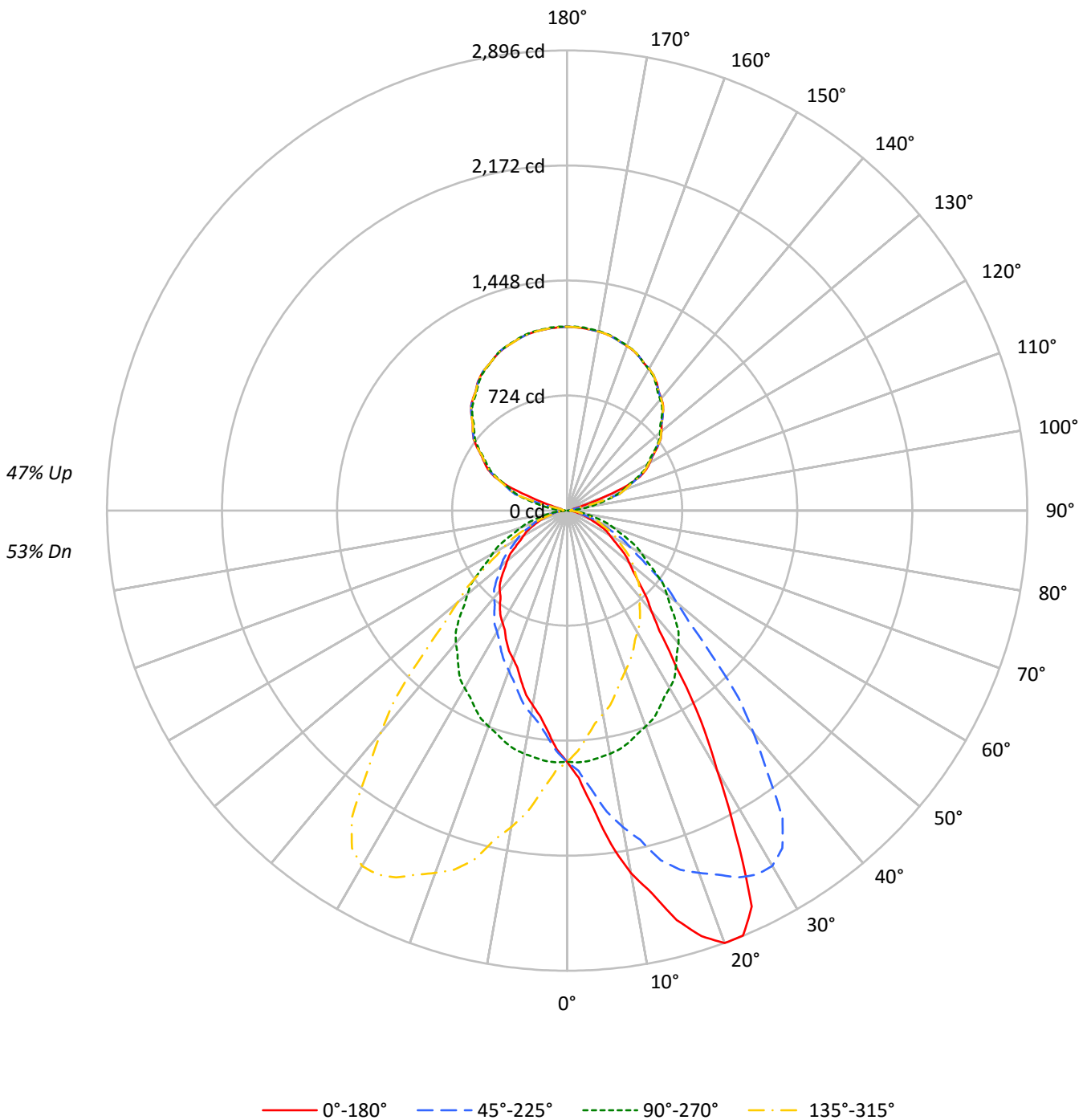
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	71	62	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.1
10°-20°	485.7	6.5
20°-30°	763.0	10.2
30°-40°	796.1	10.7
40°-50°	681.2	9.1
50°-60°	519.2	7.0
60°-70°	332.8	4.5
70°-80°	160.1	2.1
80°-90°	45.6	0.6
90°-100°	42.1	0.6
100°-110°	200.4	2.7
110°-120°	481.5	6.4
120°-130°	613.1	8.2
130°-140°	655.1	8.8
140°-150°	612.6	8.2
150°-160°	494.1	6.6
160°-170°	318.9	4.3
170°-180°	109.9	1.5
0°-30°	1404.1	18.8
0°-40°	2200.2	29.5
0°-60°	3400.7	45.5
0°-90°	3939.2	52.8
90°-120°	724.0	9.7
90°-150°	2604.6	34.9
90°-180°	3528.0	47.2
0°-180°	7466.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	26	1	26	1	26	12
95°	33	52	33	52	33	27
105°	38	256	38	256	38	86
115°	505	480	505	480	505	467
125°	691	677	691	677	691	617
135°	852	843	852	843	852	657
145°	982	973	982	973	982	613
155°	1070	1072	1070	1072	1070	493
165°	1128	1130	1128	1130	1128	318
175°	1152	1157	1152	1157	1152	110
180°	1157	1157	1157	1157	1157	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	10.6	11.5	10.4	10.8	10.8	11.2	11.1	10.9	11.9	11.2	11.2
90°	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1	21.4	20.7	18.2
92.5°	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5	23.2	22.0	20.1
95°	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3	28.0	26.6	24.5
97.5°	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7	29.2	27.6	41.4
100°	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4	29.9	28.3	58.1
102.5°	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1	51.8	56.6	89.1
105°	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6	154.4	188.2	205.4
107.5°	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4	320.2	345.0	342.2
110°	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0	381.3	387.6	385.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1	431.0	430.9	428.8
115°	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1	495.2	493.3	491.5
117.5°	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9	555.3	553.8	552.9
120°	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1	594.5	593.0	592.5
122.5°	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3	633.3	632.1	631.5
125°	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3	687.9	687.5	686.7
127.5°	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4	741.8	741.1	740.2
130°	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0	774.2	773.4	772.7
132.5°	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9	805.2	804.4	803.8
135°	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8	852.2	851.7	850.9
137.5°	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6	893.6	892.8	892.3
140°	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1	920.3	919.5	919.0
142.5°	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2	945.6	945.0	944.4
145°	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4	980.9	980.6	980.2
147.5°	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8	1012.4	1012.0	1011.7
150°	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1	1031.7	1031.3	1030.9
152.5°	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1	1048.4	1047.8	1047.6
155°	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7	1071.8	1070.8	1070.7
157.5°	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2	1092.1	1090.9	1091.1
160°	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9	1103.8	1102.6	1102.8
162.5°	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5	1114.2	1112.9	1113.1
165°	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7	1128.2	1126.7	1126.9
167.5°	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6	1137.6
170°	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8	1143.8
172.5°	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1	1149.5	1148.0	1147.8
175°	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0	1154.7	1153.3	1153.1
177.5°	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8	1156.6	1155.4	1155.2
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	11.8	10.8	11.4	10.9	12.1	12.3	15.2	17.5	18.4	16.6	17.0
90°	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9	2.8	4.6	6.6
92.5°	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0	15.4	14.9	14.4
95°	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4	44.6	36.8	28.9
97.5°	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4	101.9	98.3	94.8
100°	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3	149.0	152.9	156.7
102.5°	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6	193.4	196.1	198.9
105°	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1	258.2	260.3	262.4
107.5°	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2	326.9	328.6	330.3
110°	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3	372.8	374.3	375.8



TEST NUMBER: P332378-935

CATALOG NUMBER: S123RDIP-S1165D1025U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3	416.6	418.0	419.4
115°	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4	481.6	482.7	483.9
117.5°	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5	544.9	546.3	547.8
120°	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6	584.4	586.1	587.8
122.5°	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6	624.0	625.3	626.8
125°	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2	678.7	680.3	681.8
127.5°	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1	731.7	733.2	734.7
130°	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2	764.7	766.2	767.8
132.5°	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8	796.3	797.8	799.4
135°	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1	844.2	845.3	846.5
137.5°	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3	885.8	887.3	888.7
140°	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8	913.0	914.1	915.2
142.5°	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3	938.4	939.5	940.7
145°	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8	974.2	975.5	976.9
147.5°	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3	1007.3	1008.1	1009.0
150°	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0	1027.6	1028.1	1028.7
152.5°	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5	1045.9	1046.1	1046.4
155°	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7	1071.3	1070.9	1070.6
157.5°	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9	1091.9	1091.9	1091.8
160°	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3	1104.1	1104.0	1103.8
162.5°	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0	1115.5	1115.0	1114.6
165°	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1	1129.5	1128.9	1128.4
167.5°	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1	1140.4	1139.6	1138.8
170°	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3	1146.5	1145.8	1145.0
172.5°	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4	1150.6	1149.6	1148.7
175°	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8	1155.8	1154.9	1153.9
177.5°	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1	1157.4	1156.6	1155.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	16.9	18.9	20.0	21.0	22.0	22.0	22.6	22.8	23.5	23.7	23.8
90°	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1	22.9	23.7	24.3
92.5°	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5	25.7	26.9	27.6
95°	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3	30.7	32.0	32.6
97.5°	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7	32.3	33.8	34.6
100°	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4	33.0	34.4	35.3
102.5°	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1	42.4	37.6	35.4
105°	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6	86.8	53.0	36.2
107.5°	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4	270.6	245.8	220.7
110°	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0	368.7	362.4	345.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1	431.3	431.4	428.5
115°	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1	499.0	500.9	502.3
117.5°	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9	558.4	559.9	560.8
120°	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1	597.5	599.1	599.9
122.5°	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3	635.4	636.5	637.1
125°	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3	688.6	689.1	689.4
127.5°	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4	743.0	743.6	743.7
130°	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0	775.8	776.5	776.7
132.5°	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9	806.7	807.4	807.5
135°	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8	853.4	853.9	853.9
137.5°	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6	895.5	896.4	896.6
140°	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1	921.9	922.6	922.8
142.5°	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2	946.8	947.4	947.4
145°	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4	981.7	982.1	982.3
147.5°	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8	1013.1	1013.6	1013.3
150°	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1	1032.4	1032.9	1032.7
152.5°	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1	1049.8	1050.5	1050.4
155°	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7	1073.7	1074.6	1074.5
157.5°	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2	1094.3	1095.5	1095.4
160°	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9	1106.0	1107.2	1107.1
162.5°	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5	1116.8	1118.1	1118.2
165°	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7	1131.3	1132.8	1132.9
167.5°	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8
170°	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0
172.5°	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1	1152.5	1154.1	1154.0
175°	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0	1157.4	1158.6	1158.6
177.5°	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8	1159.1	1160.3	1160.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	25.0	23.9	24.0	24.6	24.0	23.9	25.0	23.8	23.7	23.5	22.8
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1
92.5°	27.8	28.1	28.3	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5
95°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3
97.5°	34.9	35.0	35.2	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7
100°	35.6	35.7	35.9	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4
102.5°	35.7	36.1	36.4	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1
105°	36.7	37.0	37.5	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6
107.5°	195.2	169.7	144.2	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4
110°	318.2	290.9	263.6	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.8	417.0	411.2	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1
115°	503.0	503.8	504.5	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1
117.5°	560.9	561.0	561.2	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9
120°	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1
122.5°	637.2	637.4	637.5	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3
125°	689.8	690.2	690.6	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3
127.5°	743.3	743.0	742.5	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4
130°	776.4	775.9	775.6	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0
132.5°	807.0	806.5	806.0	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9
135°	853.4	852.8	852.2	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8
137.5°	896.3	896.0	895.5	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6
140°	922.4	922.0	921.7	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1
142.5°	946.9	946.4	945.9	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2
145°	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4
147.5°	1012.4	1011.6	1010.6	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8
150°	1032.2	1031.6	1031.0	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1
152.5°	1049.6	1048.7	1047.8	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1
155°	1073.4	1072.3	1071.1	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7
157.5°	1093.8	1092.4	1090.9	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2
160°	1105.8	1104.4	1103.1	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9
162.5°	1117.0	1115.8	1114.7	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5
165°	1131.5	1130.2	1128.9	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7
167.5°	1142.3	1140.7	1139.2	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7
170°	1148.5	1146.9	1145.4	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9
172.5°	1152.4	1150.6	1149.0	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1
175°	1157.0	1155.5	1154.0	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0
177.5°	1158.6	1157.1	1155.5	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	22.6	22.0	22.0	21.0	20.0	18.9	16.9	17.0	16.6	18.4	17.5
90°	21.4	20.7	18.2	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9
92.5°	23.2	22.0	20.1	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0
95°	28.0	26.6	24.5	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4
97.5°	29.2	27.6	41.4	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4
100°	29.9	28.3	58.1	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3
102.5°	51.8	56.6	89.1	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6
105°	154.4	188.2	205.4	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1
107.5°	320.2	345.0	342.2	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2
110°	381.3	387.6	385.5	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3



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CATALOG NUMBER: S123RDIP-S1165D1025U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.0	430.9	428.8	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3
115°	495.2	493.3	491.5	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4
117.5°	555.3	553.8	552.9	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5
120°	594.5	593.0	592.5	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6
122.5°	633.3	632.1	631.5	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6
125°	687.9	687.5	686.7	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2
127.5°	741.8	741.1	740.2	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1
130°	774.2	773.4	772.7	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2
132.5°	805.2	804.4	803.8	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8
135°	852.2	851.7	850.9	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1
137.5°	893.6	892.8	892.3	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3
140°	920.3	919.5	919.0	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8
142.5°	945.6	945.0	944.4	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3
145°	980.9	980.6	980.2	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8
147.5°	1012.4	1012.0	1011.7	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3
150°	1031.7	1031.3	1030.9	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0
152.5°	1048.4	1047.8	1047.6	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5
155°	1071.8	1070.8	1070.7	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7
157.5°	1092.1	1090.9	1091.1	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9
160°	1103.8	1102.6	1102.8	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3
162.5°	1114.2	1112.9	1113.1	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0
165°	1128.2	1126.7	1126.9	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1
167.5°	1139.2	1137.6	1137.6	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1
170°	1145.4	1143.8	1143.8	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3
172.5°	1149.5	1148.0	1147.8	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4
175°	1154.7	1153.3	1153.1	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8
177.5°	1156.6	1155.4	1155.2	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	15.2	12.3	12.1	10.9	11.4	10.8	11.8	11.2	11.2	11.9	10.9
90°	2.8	4.6	6.6	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1
92.5°	15.4	14.9	14.4	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5
95°	44.6	36.8	28.9	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3
97.5°	101.9	98.3	94.8	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7
100°	149.0	152.9	156.7	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4
102.5°	193.4	196.1	198.9	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1
105°	258.2	260.3	262.4	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6
107.5°	326.9	328.6	330.3	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4
110°	372.8	374.3	375.8	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	416.6	418.0	419.4	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1
115°	481.6	482.7	483.9	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1
117.5°	544.9	546.3	547.8	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9
120°	584.4	586.1	587.8	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1
122.5°	624.0	625.3	626.8	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3
125°	678.7	680.3	681.8	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3
127.5°	731.7	733.2	734.7	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4
130°	764.7	766.2	767.8	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0
132.5°	796.3	797.8	799.4	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9
135°	844.2	845.3	846.5	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8
137.5°	885.8	887.3	888.7	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6
140°	913.0	914.1	915.2	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1
142.5°	938.4	939.5	940.7	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2
145°	974.2	975.5	976.9	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4
147.5°	1007.3	1008.1	1009.0	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8
150°	1027.6	1028.1	1028.7	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1
152.5°	1045.9	1046.1	1046.4	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1
155°	1071.3	1070.9	1070.6	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7
157.5°	1091.9	1091.9	1091.8	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2
160°	1104.1	1104.0	1103.8	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9
162.5°	1115.5	1115.0	1114.6	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5
165°	1129.5	1128.9	1128.4	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7
167.5°	1140.4	1139.6	1138.8	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7
170°	1146.5	1145.8	1145.0	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9
172.5°	1150.6	1149.6	1148.7	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1
175°	1155.8	1154.9	1153.9	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0
177.5°	1157.4	1156.6	1155.8	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	11.1	11.2	10.8	10.8	10.4	11.5	10.6
90°	22.9	23.7	24.3	24.6	25.1	25.4	25.7
92.5°	25.7	26.9	27.6	27.8	28.1	28.3	28.5
95°	30.7	32.0	32.6	32.6	32.6	32.6	32.6
97.5°	32.3	33.8	34.6	34.9	35.0	35.2	35.4
100°	33.0	34.4	35.3	35.6	35.7	35.9	36.1
102.5°	42.4	37.6	35.4	35.7	36.1	36.4	36.8
105°	86.8	53.0	36.2	36.7	37.0	37.5	37.8
107.5°	270.6	245.8	220.7	195.2	169.7	144.2	118.7
110°	368.7	362.4	345.6	318.2	290.9	263.6	236.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	431.3	431.4	428.5	422.8	417.0	411.2	405.4
115°	499.0	500.9	502.3	503.0	503.8	504.5	505.3
117.5°	558.4	559.9	560.8	560.9	561.0	561.2	561.4
120°	597.5	599.1	599.9	599.9	599.9	599.9	599.9
122.5°	635.4	636.5	637.1	637.2	637.4	637.5	637.7
125°	688.6	689.1	689.4	689.8	690.2	690.6	691.0
127.5°	743.0	743.6	743.7	743.3	743.0	742.5	742.2
130°	775.8	776.5	776.7	776.4	775.9	775.6	775.2
132.5°	806.7	807.4	807.5	807.0	806.5	806.0	805.5
135°	853.4	853.9	853.9	853.4	852.8	852.2	851.7
137.5°	895.5	896.4	896.6	896.3	896.0	895.5	895.2
140°	921.9	922.6	922.8	922.4	922.0	921.7	921.3
142.5°	946.8	947.4	947.4	946.9	946.4	945.9	945.4
145°	981.7	982.1	982.3	982.3	982.3	982.3	982.3
147.5°	1013.1	1013.6	1013.3	1012.4	1011.6	1010.6	1009.8
150°	1032.4	1032.9	1032.7	1032.2	1031.6	1031.0	1030.4
152.5°	1049.8	1050.5	1050.4	1049.6	1048.7	1047.8	1046.9
155°	1073.7	1074.6	1074.5	1073.4	1072.3	1071.1	1070.0
157.5°	1094.3	1095.5	1095.4	1093.8	1092.4	1090.9	1089.4
160°	1106.0	1107.2	1107.1	1105.8	1104.4	1103.1	1101.7
162.5°	1116.8	1118.1	1118.2	1117.0	1115.8	1114.7	1113.4
165°	1131.3	1132.8	1132.9	1131.5	1130.2	1128.9	1127.6
167.5°	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6
170°	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8
172.5°	1152.5	1154.1	1154.0	1152.4	1150.6	1149.0	1147.3
175°	1157.4	1158.6	1158.6	1157.0	1155.5	1154.0	1152.4
177.5°	1159.1	1160.3	1160.1	1158.6	1157.1	1155.5	1154.0
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8

(END OF REPORT)