

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: P331759-830

Luminaire Tested: **S122RDIP-S1005D1080U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331759-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S1005D1080U830-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

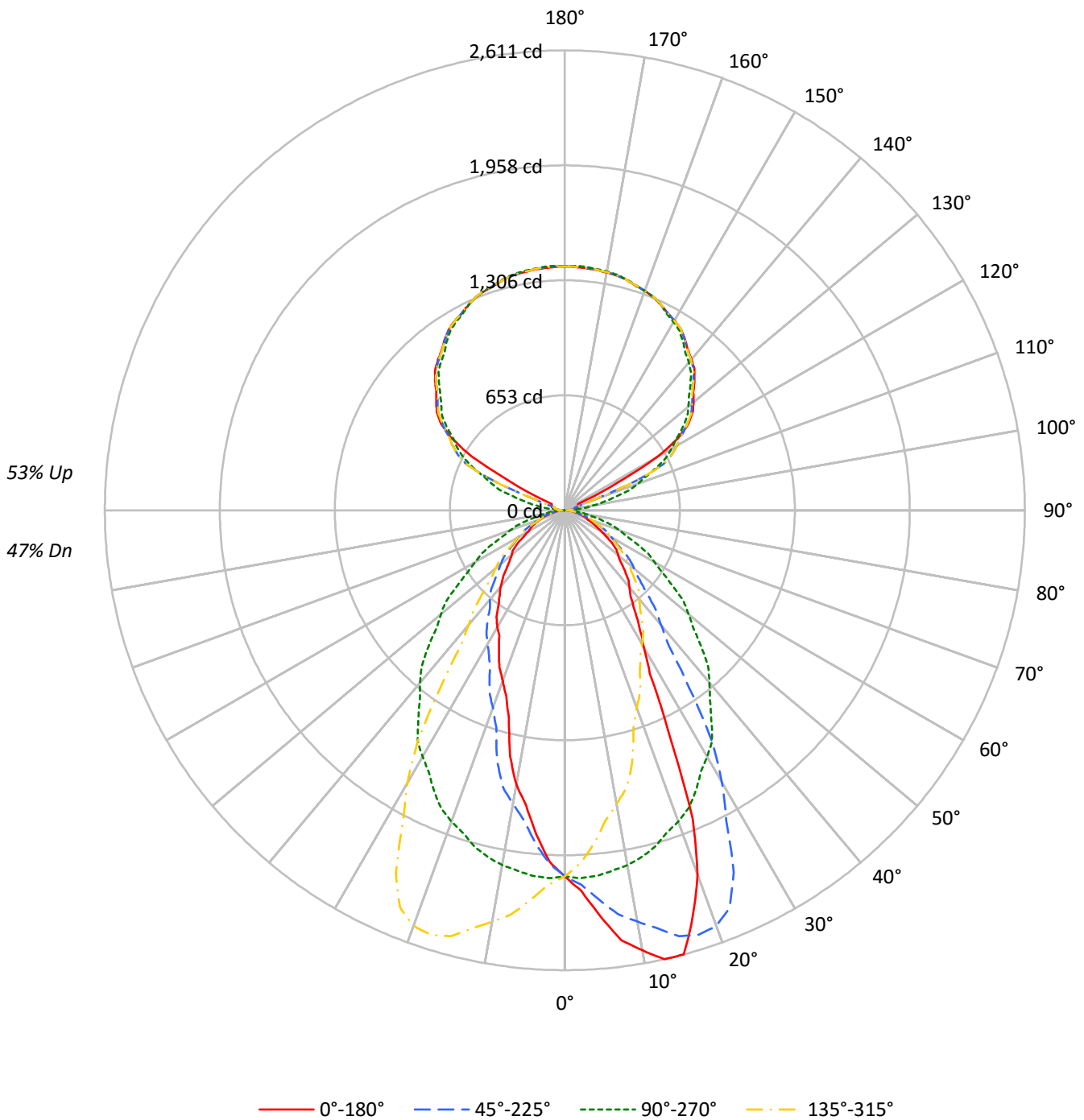
Lumens per Lamp: N/A  
Luminaire Lumens: 7653.9 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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



TEST NUMBER: P331759-830  
CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	43	42	40	36
3	82	73	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	70	61	54	49	52	47	43	43	40	37	36	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	24	26	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	26	45	35	29	25	30	25	22	26	22	20	22	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	2.6
10°-20°	549.1	7.2
20°-30°	707.5	9.2
30°-40°	672.4	8.8
40°-50°	576.0	7.5
50°-60°	438.6	5.7
60°-70°	277.3	3.6
70°-80°	138.5	1.8
80°-90°	39.5	0.5
90°-100°	46.2	0.6
100°-110°	169.4	2.2
110°-120°	452.8	5.9
120°-130°	747.4	9.8
130°-140°	794.9	10.4
140°-150°	738.8	9.7
150°-160°	594.0	7.8
160°-170°	382.8	5.0
170°-180°	131.8	1.7
0°-30°	1453.7	19.0
0°-40°	2126.0	27.8
0°-60°	3140.7	41.0
0°-90°	3595.9	47.0
90°-120°	668.4	8.7
90°-150°	2949.4	38.5
90°-180°	4058.0	53.0
0°-180°	7653.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	29
90°	27	1	27	1	27	13
95°	43	65	43	65	43	40
105°	76	305	76	305	76	79
115°	82	576	82	576	82	206
125°	857	815	857	815	857	741
135°	1041	1008	1041	1008	1041	802
145°	1187	1169	1187	1169	1187	743
155°	1288	1288	1288	1288	1288	595
165°	1354	1357	1354	1357	1354	382
175°	1380	1388	1380	1388	1380	131
180°	1385	1385	1385	1385	1385	



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	14.6	15.2	15.1	15.0	14.9	14.7	14.5	14.9	14.0	14.4	13.5
90°	27.1	26.6	26.2	25.7	25.3	24.5	23.4	22.2	21.1	20.1	18.3
92.5°	27.1	26.8	26.5	26.3	26.0	25.5	25.0	24.4	23.8	23.3	22.3
95°	43.1	43.3	43.5	43.7	44.0	43.5	42.4	41.3	40.2	39.1	37.5
97.5°	57.5	57.2	57.0	56.7	56.5	55.9	55.0	54.1	53.2	52.3	48.7
100°	67.1	66.7	66.3	65.8	65.3	64.3	62.5	60.7	58.9	57.1	53.3
102.5°	71.9	71.4	70.7	70.0	69.5	68.0	65.7	63.3	61.1	58.7	90.4
105°	76.2	75.2	74.4	73.5	72.6	70.9	68.4	66.0	63.5	61.1	121.9
107.5°	78.3	77.5	76.5	75.7	74.8	75.6	78.0	80.6	83.0	85.6	158.4
110°	79.2	78.2	77.4	76.4	75.6	86.2	108.6	130.8	153.1	175.3	239.7



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	79.9	79.3	78.5	77.9	77.1	117.3	198.6	279.8	361.1	442.2	458.2
115°	82.2	98.2	114.2	130.3	146.3	205.9	309.0	412.0	515.1	618.2	612.7
117.5°	335.5	388.1	440.8	493.5	546.2	585.0	609.9	634.9	659.8	684.8	680.9
120°	611.2	641.2	671.3	701.3	731.4	745.2	742.4	739.8	737.1	734.4	730.5
122.5°	762.7	768.5	774.4	780.2	786.0	788.2	786.6	784.9	783.3	781.7	777.4
125°	856.7	856.0	855.4	854.7	854.0	852.9	851.3	849.8	848.2	846.7	842.4
127.5°	916.0	915.9	915.8	915.6	915.5	914.3	912.0	909.7	907.5	905.2	902.0
130°	952.9	953.1	953.3	953.6	953.8	952.6	950.2	947.7	945.3	942.8	940.4
132.5°	988.9	989.2	989.4	989.6	989.9	988.9	986.8	984.7	982.6	980.5	978.1
135°	1041.0	1041.5	1041.9	1042.4	1042.8	1041.9	1039.7	1037.5	1035.3	1033.0	1031.0
137.5°	1088.5	1089.3	1090.1	1090.8	1091.6	1090.8	1088.6	1086.5	1084.3	1082.1	1079.9
140°	1118.2	1119.3	1120.4	1121.5	1122.7	1122.2	1120.2	1118.2	1116.2	1114.2	1111.7
142.5°	1147.1	1148.2	1149.2	1150.4	1151.5	1151.1	1149.3	1147.5	1145.7	1143.9	1141.0
145°	1187.3	1188.5	1189.6	1190.7	1191.8	1191.6	1190.0	1188.5	1186.8	1185.3	1181.6
147.5°	1222.8	1223.7	1224.6	1225.6	1226.5	1226.4	1225.3	1224.1	1222.9	1221.8	1218.0
150°	1244.4	1245.6	1246.7	1247.7	1248.9	1248.8	1247.5	1246.1	1244.8	1243.4	1239.9
152.5°	1262.9	1264.3	1265.8	1267.2	1268.8	1268.9	1267.5	1266.1	1264.8	1263.5	1260.1
155°	1288.5	1290.3	1292.1	1293.8	1295.6	1295.9	1294.6	1293.2	1291.8	1290.5	1287.9
157.5°	1311.9	1313.7	1315.4	1317.2	1318.9	1319.0	1317.5	1316.0	1314.5	1313.0	1311.1
160°	1325.6	1327.2	1328.7	1330.3	1331.8	1331.9	1330.6	1329.3	1327.9	1326.6	1325.3
162.5°	1336.8	1338.7	1340.7	1342.6	1344.4	1344.7	1343.1	1341.6	1340.1	1338.6	1337.5
165°	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9	1358.3	1356.8	1355.2	1353.7	1353.0
167.5°	1364.2	1366.3	1368.3	1370.3	1372.2	1372.5	1370.9	1369.4	1367.8	1366.3	1365.6
170°	1370.6	1372.7	1374.7	1376.7	1378.7	1378.9	1377.3	1375.8	1374.2	1372.7	1372.2
172.5°	1375.5	1377.5	1379.5	1381.5	1383.6	1383.7	1382.1	1380.6	1379.0	1377.5	1377.1
175°	1379.7	1382.0	1384.1	1386.4	1388.6	1388.9	1387.4	1385.8	1384.3	1382.7	1382.2
177.5°	1382.3	1383.9	1385.5	1387.1	1388.7	1388.9	1387.6	1386.4	1385.2	1383.9	1383.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	13.1	13.4	13.0	12.0	12.1	12.2	14.5	17.0	15.2	13.9	13.2
90°	16.5	14.7	12.9	10.8	8.4	5.9	3.5	1.0	3.5	5.9	8.4
92.5°	21.5	20.5	19.7	19.3	19.6	19.8	20.0	20.3	20.0	19.8	19.6
95°	36.0	34.4	32.8	35.7	43.1	50.4	57.8	65.1	57.8	50.4	43.1
97.5°	45.1	41.5	37.9	46.5	67.1	87.8	108.6	129.2	108.6	87.8	67.1
100°	49.6	45.7	41.9	55.3	85.9	116.3	146.8	177.4	146.8	116.3	85.9
102.5°	122.1	153.7	185.4	204.4	210.8	217.4	223.8	230.3	223.8	217.4	210.8
105°	182.7	243.5	304.3	331.3	324.6	317.9	311.3	304.6	311.3	317.9	324.6
107.5°	231.4	304.3	377.2	410.9	405.5	400.1	394.7	389.4	394.7	400.1	405.5
110°	304.1	368.3	432.7	462.6	457.9	453.3	448.6	443.8	448.6	453.3	457.9





TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	474.1	489.9	505.9	511.7	507.6	503.4	499.4	495.2	499.4	503.4	507.6
115°	607.1	601.5	596.0	591.3	587.5	583.7	579.9	576.2	579.9	583.7	587.5
117.5°	677.1	673.3	669.4	665.4	661.2	657.0	652.7	648.5	652.7	657.0	661.2
120°	726.4	722.5	718.4	714.7	711.4	708.0	704.7	701.3	704.7	708.0	711.4
122.5°	773.0	768.6	764.3	760.3	756.9	753.3	749.8	746.3	749.8	753.3	756.9
125°	838.2	834.0	829.7	826.1	823.3	820.4	817.5	814.6	817.5	820.4	823.3
127.5°	898.8	895.7	892.5	889.4	886.2	883.0	879.8	876.6	879.8	883.0	886.2
130°	937.9	935.5	933.0	930.0	926.5	922.9	919.4	915.8	919.4	922.9	926.5
132.5°	975.6	973.2	970.7	968.0	965.0	962.0	958.9	955.8	958.9	962.0	965.0
135°	1029.0	1027.0	1025.0	1022.2	1018.7	1015.1	1011.5	1008.0	1011.5	1015.1	1018.7
137.5°	1077.6	1075.3	1073.0	1070.6	1068.2	1065.6	1063.2	1060.6	1063.2	1065.6	1068.2
140°	1109.3	1106.8	1104.4	1102.3	1100.5	1098.7	1096.9	1095.1	1096.9	1098.7	1100.5
142.5°	1138.2	1135.4	1132.7	1130.4	1128.8	1127.2	1125.6	1124.0	1125.6	1127.2	1128.8
145°	1177.7	1173.9	1170.2	1168.4	1168.7	1168.8	1169.0	1169.3	1169.0	1168.8	1168.7
147.5°	1214.3	1210.6	1206.8	1205.4	1206.3	1207.1	1208.0	1208.8	1208.0	1207.1	1206.3
150°	1236.3	1232.8	1229.2	1228.2	1229.7	1231.3	1232.8	1234.4	1232.8	1231.3	1229.7
152.5°	1256.7	1253.3	1249.9	1249.2	1250.8	1252.5	1254.3	1256.0	1254.3	1252.5	1250.8
155°	1285.2	1282.5	1279.9	1279.5	1281.5	1283.6	1285.5	1287.5	1285.5	1283.6	1281.5
157.5°	1309.2	1307.4	1305.5	1305.4	1307.1	1308.8	1310.5	1312.2	1310.5	1308.8	1307.1
160°	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1325.3	1323.9	1322.6
162.5°	1336.3	1335.1	1334.0	1334.1	1335.4	1336.7	1338.1	1339.4	1338.1	1336.7	1335.4
165°	1352.4	1351.6	1350.9	1351.3	1352.6	1354.0	1355.3	1356.7	1355.3	1354.0	1352.6
167.5°	1365.0	1364.4	1363.8	1364.1	1365.5	1366.8	1368.2	1369.5	1368.2	1366.8	1365.5
170°	1371.8	1371.4	1370.9	1371.4	1372.7	1374.0	1375.4	1376.7	1375.4	1374.0	1372.7
172.5°	1376.6	1376.2	1375.7	1376.2	1377.5	1378.8	1380.2	1381.5	1380.2	1378.8	1377.5
175°	1381.9	1381.4	1380.9	1381.5	1383.1	1384.6	1386.2	1387.7	1386.2	1384.6	1383.1
177.5°	1383.6	1383.4	1383.2	1383.7	1385.0	1386.2	1387.5	1388.7	1387.5	1386.2	1385.0
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	13.1	13.0	12.2	12.5	12.9	12.6	12.9	12.5	12.7	13.0	12.5
90°	10.8	12.9	14.7	16.5	18.3	20.1	21.1	22.2	23.4	24.5	25.3
92.5°	19.3	19.7	20.5	21.5	22.3	23.3	23.8	24.4	25.0	25.5	26.0
95°	35.7	32.8	34.4	36.0	37.5	39.1	40.2	41.3	42.4	43.5	44.0
97.5°	46.5	37.9	41.5	45.1	48.7	52.3	53.2	54.1	55.0	55.9	56.5
100°	55.3	41.9	45.7	49.6	53.3	57.1	58.9	60.7	62.5	64.3	65.3
102.5°	204.4	185.4	153.7	122.1	90.4	58.7	61.1	63.3	65.7	68.0	69.5
105°	331.3	304.3	243.5	182.7	121.9	61.1	63.5	66.0	68.4	70.9	72.6
107.5°	410.9	377.2	304.3	231.4	158.4	85.6	83.0	80.6	78.0	75.6	74.8
110°	462.6	432.7	368.3	304.1	239.7	175.3	153.1	130.8	108.6	86.2	75.6



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	511.7	505.9	489.9	474.1	458.2	442.2	361.1	279.8	198.6	117.3	77.1
115°	591.3	596.0	601.5	607.1	612.7	618.2	515.1	412.0	309.0	205.9	146.3
117.5°	665.4	669.4	673.3	677.1	680.9	684.8	659.8	634.9	609.9	585.0	546.2
120°	714.7	718.4	722.5	726.4	730.5	734.4	737.1	739.8	742.4	745.2	731.4
122.5°	760.3	764.3	768.6	773.0	777.4	781.7	783.3	784.9	786.6	788.2	786.0
125°	826.1	829.7	834.0	838.2	842.4	846.7	848.2	849.8	851.3	852.9	854.0
127.5°	889.4	892.5	895.7	898.8	902.0	905.2	907.5	909.7	912.0	914.3	915.5
130°	930.0	933.0	935.5	937.9	940.4	942.8	945.3	947.7	950.2	952.6	953.8
132.5°	968.0	970.7	973.2	975.6	978.1	980.5	982.6	984.7	986.8	988.9	989.9
135°	1022.2	1025.0	1027.0	1029.0	1031.0	1033.0	1035.3	1037.5	1039.7	1041.9	1042.8
137.5°	1070.6	1073.0	1075.3	1077.6	1079.9	1082.1	1084.3	1086.5	1088.6	1090.8	1091.6
140°	1102.3	1104.4	1106.8	1109.3	1111.7	1114.2	1116.2	1118.2	1120.2	1122.2	1122.7
142.5°	1130.4	1132.7	1135.4	1138.2	1141.0	1143.9	1145.7	1147.5	1149.3	1151.1	1151.5
145°	1168.4	1170.2	1173.9	1177.7	1181.6	1185.3	1186.8	1188.5	1190.0	1191.6	1191.8
147.5°	1205.4	1206.8	1210.6	1214.3	1218.0	1221.8	1222.9	1224.1	1225.3	1226.4	1226.5
150°	1228.2	1229.2	1232.8	1236.3	1239.9	1243.4	1244.8	1246.1	1247.5	1248.8	1248.9
152.5°	1249.2	1249.9	1253.3	1256.7	1260.1	1263.5	1264.8	1266.1	1267.5	1268.9	1268.8
155°	1279.5	1279.9	1282.5	1285.2	1287.9	1290.5	1291.8	1293.2	1294.6	1295.9	1295.6
157.5°	1305.4	1305.5	1307.4	1309.2	1311.1	1313.0	1314.5	1316.0	1317.5	1319.0	1318.9
160°	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1327.9	1329.3	1330.6	1331.9	1331.8
162.5°	1334.1	1334.0	1335.1	1336.3	1337.5	1338.6	1340.1	1341.6	1343.1	1344.7	1344.4
165°	1351.3	1350.9	1351.6	1352.4	1353.0	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9
167.5°	1364.1	1363.8	1364.4	1365.0	1365.6	1366.3	1367.8	1369.4	1370.9	1372.5	1372.2
170°	1371.4	1370.9	1371.4	1371.8	1372.2	1372.7	1374.2	1375.8	1377.3	1378.9	1378.7
172.5°	1376.2	1375.7	1376.2	1376.6	1377.1	1377.5	1379.0	1380.6	1382.1	1383.7	1383.6
175°	1381.5	1380.9	1381.4	1381.9	1382.2	1382.7	1384.3	1385.8	1387.4	1388.9	1388.6
177.5°	1383.7	1383.2	1383.4	1383.6	1383.7	1383.9	1385.2	1386.4	1387.6	1388.9	1388.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830  
 CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	12.6	12.2	12.8	12.3	12.8	12.2	12.6	12.5	13.0	12.7	12.5
90°	25.7	26.2	26.6	27.1	26.6	26.2	25.7	25.3	24.5	23.4	22.2
92.5°	26.3	26.5	26.8	27.1	26.8	26.5	26.3	26.0	25.5	25.0	24.4
95°	43.7	43.5	43.3	43.1	43.3	43.5	43.7	44.0	43.5	42.4	41.3
97.5°	56.7	57.0	57.2	57.5	57.2	57.0	56.7	56.5	55.9	55.0	54.1
100°	65.8	66.3	66.7	67.1	66.7	66.3	65.8	65.3	64.3	62.5	60.7
102.5°	70.0	70.7	71.4	71.9	71.4	70.7	70.0	69.5	68.0	65.7	63.3
105°	73.5	74.4	75.2	76.2	75.2	74.4	73.5	72.6	70.9	68.4	66.0
107.5°	75.7	76.5	77.5	78.3	77.5	76.5	75.7	74.8	75.6	78.0	80.6
110°	76.4	77.4	78.2	79.2	78.2	77.4	76.4	75.6	86.2	108.6	130.8



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	77.9	78.5	79.3	79.9	79.3	78.5	77.9	77.1	117.3	198.6	279.8
115°	130.3	114.2	98.2	82.2	98.2	114.2	130.3	146.3	205.9	309.0	412.0
117.5°	493.5	440.8	388.1	335.5	388.1	440.8	493.5	546.2	585.0	609.9	634.9
120°	701.3	671.3	641.2	611.2	641.2	671.3	701.3	731.4	745.2	742.4	739.8
122.5°	780.2	774.4	768.5	762.7	768.5	774.4	780.2	786.0	788.2	786.6	784.9
125°	854.7	855.4	856.0	856.7	856.0	855.4	854.7	854.0	852.9	851.3	849.8
127.5°	915.6	915.8	915.9	916.0	915.9	915.8	915.6	915.5	914.3	912.0	909.7
130°	953.6	953.3	953.1	952.9	953.1	953.3	953.6	953.8	952.6	950.2	947.7
132.5°	989.6	989.4	989.2	988.9	989.2	989.4	989.6	989.9	988.9	986.8	984.7
135°	1042.4	1041.9	1041.5	1041.0	1041.5	1041.9	1042.4	1042.8	1041.9	1039.7	1037.5
137.5°	1090.8	1090.1	1089.3	1088.5	1089.3	1090.1	1090.8	1091.6	1090.8	1088.6	1086.5
140°	1121.5	1120.4	1119.3	1118.2	1119.3	1120.4	1121.5	1122.7	1122.2	1120.2	1118.2
142.5°	1150.4	1149.2	1148.2	1147.1	1148.2	1149.2	1150.4	1151.5	1151.1	1149.3	1147.5
145°	1190.7	1189.6	1188.5	1187.3	1188.5	1189.6	1190.7	1191.8	1191.6	1190.0	1188.5
147.5°	1225.6	1224.6	1223.7	1222.8	1223.7	1224.6	1225.6	1226.5	1226.4	1225.3	1224.1
150°	1247.7	1246.7	1245.6	1244.4	1245.6	1246.7	1247.7	1248.9	1248.8	1247.5	1246.1
152.5°	1267.2	1265.8	1264.3	1262.9	1264.3	1265.8	1267.2	1268.8	1268.9	1267.5	1266.1
155°	1293.8	1292.1	1290.3	1288.5	1290.3	1292.1	1293.8	1295.6	1295.9	1294.6	1293.2
157.5°	1317.2	1315.4	1313.7	1311.9	1313.7	1315.4	1317.2	1318.9	1319.0	1317.5	1316.0
160°	1330.3	1328.7	1327.2	1325.6	1327.2	1328.7	1330.3	1331.8	1331.9	1330.6	1329.3
162.5°	1342.6	1340.7	1338.7	1336.8	1338.7	1340.7	1342.6	1344.4	1344.7	1343.1	1341.6
165°	1358.3	1356.8	1355.2	1353.7	1355.2	1356.8	1358.3	1359.9	1359.9	1358.3	1356.8
167.5°	1370.3	1368.3	1366.3	1364.2	1366.3	1368.3	1370.3	1372.2	1372.5	1370.9	1369.4
170°	1376.7	1374.7	1372.7	1370.6	1372.7	1374.7	1376.7	1378.7	1378.9	1377.3	1375.8
172.5°	1381.5	1379.5	1377.5	1375.5	1377.5	1379.5	1381.5	1383.6	1383.7	1382.1	1380.6
175°	1386.4	1384.1	1382.0	1379.7	1382.0	1384.1	1386.4	1388.6	1388.9	1387.4	1385.8
177.5°	1387.1	1385.5	1383.9	1382.3	1383.9	1385.5	1387.1	1388.7	1388.9	1387.6	1386.4
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830  
 CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	12.9	12.6	12.9	12.5	12.2	13.0	13.1	13.2	13.9	15.2	17.0
90°	21.1	20.1	18.3	16.5	14.7	12.9	10.8	8.4	5.9	3.5	1.0
92.5°	23.8	23.3	22.3	21.5	20.5	19.7	19.3	19.6	19.8	20.0	20.3
95°	40.2	39.1	37.5	36.0	34.4	32.8	35.7	43.1	50.4	57.8	65.1
97.5°	53.2	52.3	48.7	45.1	41.5	37.9	46.5	67.1	87.8	108.6	129.2
100°	58.9	57.1	53.3	49.6	45.7	41.9	55.3	85.9	116.3	146.8	177.4
102.5°	61.1	58.7	90.4	122.1	153.7	185.4	204.4	210.8	217.4	223.8	230.3
105°	63.5	61.1	121.9	182.7	243.5	304.3	331.3	324.6	317.9	311.3	304.6
107.5°	83.0	85.6	158.4	231.4	304.3	377.2	410.9	405.5	400.1	394.7	389.4
110°	153.1	175.3	239.7	304.1	368.3	432.7	462.6	457.9	453.3	448.6	443.8



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	361.1	442.2	458.2	474.1	489.9	505.9	511.7	507.6	503.4	499.4	495.2
115°	515.1	618.2	612.7	607.1	601.5	596.0	591.3	587.5	583.7	579.9	576.2
117.5°	659.8	684.8	680.9	677.1	673.3	669.4	665.4	661.2	657.0	652.7	648.5
120°	737.1	734.4	730.5	726.4	722.5	718.4	714.7	711.4	708.0	704.7	701.3
122.5°	783.3	781.7	777.4	773.0	768.6	764.3	760.3	756.9	753.3	749.8	746.3
125°	848.2	846.7	842.4	838.2	834.0	829.7	826.1	823.3	820.4	817.5	814.6
127.5°	907.5	905.2	902.0	898.8	895.7	892.5	889.4	886.2	883.0	879.8	876.6
130°	945.3	942.8	940.4	937.9	935.5	933.0	930.0	926.5	922.9	919.4	915.8
132.5°	982.6	980.5	978.1	975.6	973.2	970.7	968.0	965.0	962.0	958.9	955.8
135°	1035.3	1033.0	1031.0	1029.0	1027.0	1025.0	1022.2	1018.7	1015.1	1011.5	1008.0
137.5°	1084.3	1082.1	1079.9	1077.6	1075.3	1073.0	1070.6	1068.2	1065.6	1063.2	1060.6
140°	1116.2	1114.2	1111.7	1109.3	1106.8	1104.4	1102.3	1100.5	1098.7	1096.9	1095.1
142.5°	1145.7	1143.9	1141.0	1138.2	1135.4	1132.7	1130.4	1128.8	1127.2	1125.6	1124.0
145°	1186.8	1185.3	1181.6	1177.7	1173.9	1170.2	1168.4	1168.7	1168.8	1169.0	1169.3
147.5°	1222.9	1221.8	1218.0	1214.3	1210.6	1206.8	1205.4	1206.3	1207.1	1208.0	1208.8
150°	1244.8	1243.4	1239.9	1236.3	1232.8	1229.2	1228.2	1229.7	1231.3	1232.8	1234.4
152.5°	1264.8	1263.5	1260.1	1256.7	1253.3	1249.9	1249.2	1250.8	1252.5	1254.3	1256.0
155°	1291.8	1290.5	1287.9	1285.2	1282.5	1279.9	1279.5	1281.5	1283.6	1285.5	1287.5
157.5°	1314.5	1313.0	1311.1	1309.2	1307.4	1305.5	1305.4	1307.1	1308.8	1310.5	1312.2
160°	1327.9	1326.6	1325.3	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6
162.5°	1340.1	1338.6	1337.5	1336.3	1335.1	1334.0	1334.1	1335.4	1336.7	1338.1	1339.4
165°	1355.2	1353.7	1353.0	1352.4	1351.6	1350.9	1351.3	1352.6	1354.0	1355.3	1356.7
167.5°	1367.8	1366.3	1365.6	1365.0	1364.4	1363.8	1364.1	1365.5	1366.8	1368.2	1369.5
170°	1374.2	1372.7	1372.2	1371.8	1371.4	1370.9	1371.4	1372.7	1374.0	1375.4	1376.7
172.5°	1379.0	1377.5	1377.1	1376.6	1376.2	1375.7	1376.2	1377.5	1378.8	1380.2	1381.5
175°	1384.3	1382.7	1382.2	1381.9	1381.4	1380.9	1381.5	1383.1	1384.6	1386.2	1387.7
177.5°	1385.2	1383.9	1383.7	1383.6	1383.4	1383.2	1383.7	1385.0	1386.2	1387.5	1388.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.5	12.2	12.1	12.0	13.0	13.4	13.1	13.5	14.4	14.0	14.9
90°	3.5	5.9	8.4	10.8	12.9	14.7	16.5	18.3	20.1	21.1	22.2
92.5°	20.0	19.8	19.6	19.3	19.7	20.5	21.5	22.3	23.3	23.8	24.4
95°	57.8	50.4	43.1	35.7	32.8	34.4	36.0	37.5	39.1	40.2	41.3
97.5°	108.6	87.8	67.1	46.5	37.9	41.5	45.1	48.7	52.3	53.2	54.1
100°	146.8	116.3	85.9	55.3	41.9	45.7	49.6	53.3	57.1	58.9	60.7
102.5°	223.8	217.4	210.8	204.4	185.4	153.7	122.1	90.4	58.7	61.1	63.3
105°	311.3	317.9	324.6	331.3	304.3	243.5	182.7	121.9	61.1	63.5	66.0
107.5°	394.7	400.1	405.5	410.9	377.2	304.3	231.4	158.4	85.6	83.0	80.6
110°	448.6	453.3	457.9	462.6	432.7	368.3	304.1	239.7	175.3	153.1	130.8





TEST NUMBER: P331759-830

CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	499.4	503.4	507.6	511.7	505.9	489.9	474.1	458.2	442.2	361.1	279.8
115°	579.9	583.7	587.5	591.3	596.0	601.5	607.1	612.7	618.2	515.1	412.0
117.5°	652.7	657.0	661.2	665.4	669.4	673.3	677.1	680.9	684.8	659.8	634.9
120°	704.7	708.0	711.4	714.7	718.4	722.5	726.4	730.5	734.4	737.1	739.8
122.5°	749.8	753.3	756.9	760.3	764.3	768.6	773.0	777.4	781.7	783.3	784.9
125°	817.5	820.4	823.3	826.1	829.7	834.0	838.2	842.4	846.7	848.2	849.8
127.5°	879.8	883.0	886.2	889.4	892.5	895.7	898.8	902.0	905.2	907.5	909.7
130°	919.4	922.9	926.5	930.0	933.0	935.5	937.9	940.4	942.8	945.3	947.7
132.5°	958.9	962.0	965.0	968.0	970.7	973.2	975.6	978.1	980.5	982.6	984.7
135°	1011.5	1015.1	1018.7	1022.2	1025.0	1027.0	1029.0	1031.0	1033.0	1035.3	1037.5
137.5°	1063.2	1065.6	1068.2	1070.6	1073.0	1075.3	1077.6	1079.9	1082.1	1084.3	1086.5
140°	1096.9	1098.7	1100.5	1102.3	1104.4	1106.8	1109.3	1111.7	1114.2	1116.2	1118.2
142.5°	1125.6	1127.2	1128.8	1130.4	1132.7	1135.4	1138.2	1141.0	1143.9	1145.7	1147.5
145°	1169.0	1168.8	1168.7	1168.4	1170.2	1173.9	1177.7	1181.6	1185.3	1186.8	1188.5
147.5°	1208.0	1207.1	1206.3	1205.4	1206.8	1210.6	1214.3	1218.0	1221.8	1222.9	1224.1
150°	1232.8	1231.3	1229.7	1228.2	1229.2	1232.8	1236.3	1239.9	1243.4	1244.8	1246.1
152.5°	1254.3	1252.5	1250.8	1249.2	1249.9	1253.3	1256.7	1260.1	1263.5	1264.8	1266.1
155°	1285.5	1283.6	1281.5	1279.5	1279.9	1282.5	1285.2	1287.9	1290.5	1291.8	1293.2
157.5°	1310.5	1308.8	1307.1	1305.4	1305.5	1307.4	1309.2	1311.1	1313.0	1314.5	1316.0
160°	1325.3	1323.9	1322.6	1321.3	1321.3	1322.6	1323.9	1325.3	1326.6	1327.9	1329.3
162.5°	1338.1	1336.7	1335.4	1334.1	1334.0	1335.1	1336.3	1337.5	1338.6	1340.1	1341.6
165°	1355.3	1354.0	1352.6	1351.3	1350.9	1351.6	1352.4	1353.0	1353.7	1355.2	1356.8
167.5°	1368.2	1366.8	1365.5	1364.1	1363.8	1364.4	1365.0	1365.6	1366.3	1367.8	1369.4
170°	1375.4	1374.0	1372.7	1371.4	1370.9	1371.4	1371.8	1372.2	1372.7	1374.2	1375.8
172.5°	1380.2	1378.8	1377.5	1376.2	1375.7	1376.2	1376.6	1377.1	1377.5	1379.0	1380.6
175°	1386.2	1384.6	1383.1	1381.5	1380.9	1381.4	1381.9	1382.2	1382.7	1384.3	1385.8
177.5°	1387.5	1386.2	1385.0	1383.7	1383.2	1383.4	1383.6	1383.7	1383.9	1385.2	1386.4
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7



TEST NUMBER: P331759-830  
 CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	14.5	14.7	14.9	15.0	15.1	15.2	14.6
90°	23.4	24.5	25.3	25.7	26.2	26.6	27.1
92.5°	25.0	25.5	26.0	26.3	26.5	26.8	27.1
95°	42.4	43.5	44.0	43.7	43.5	43.3	43.1
97.5°	55.0	55.9	56.5	56.7	57.0	57.2	57.5
100°	62.5	64.3	65.3	65.8	66.3	66.7	67.1
102.5°	65.7	68.0	69.5	70.0	70.7	71.4	71.9
105°	68.4	70.9	72.6	73.5	74.4	75.2	76.2
107.5°	78.0	75.6	74.8	75.7	76.5	77.5	78.3
110°	108.6	86.2	75.6	76.4	77.4	78.2	79.2



TEST NUMBER: P331759-830  
CATALOG NUMBER: S122RDIP-S1005D1080U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.6	117.3	77.1	77.9	78.5	79.3	79.9
115°	309.0	205.9	146.3	130.3	114.2	98.2	82.2
117.5°	609.9	585.0	546.2	493.5	440.8	388.1	335.5
120°	742.4	745.2	731.4	701.3	671.3	641.2	611.2
122.5°	786.6	788.2	786.0	780.2	774.4	768.5	762.7
125°	851.3	852.9	854.0	854.7	855.4	856.0	856.7
127.5°	912.0	914.3	915.5	915.6	915.8	915.9	916.0
130°	950.2	952.6	953.8	953.6	953.3	953.1	952.9
132.5°	986.8	988.9	989.9	989.6	989.4	989.2	988.9
135°	1039.7	1041.9	1042.8	1042.4	1041.9	1041.5	1041.0
137.5°	1088.6	1090.8	1091.6	1090.8	1090.1	1089.3	1088.5
140°	1120.2	1122.2	1122.7	1121.5	1120.4	1119.3	1118.2
142.5°	1149.3	1151.1	1151.5	1150.4	1149.2	1148.2	1147.1
145°	1190.0	1191.6	1191.8	1190.7	1189.6	1188.5	1187.3
147.5°	1225.3	1226.4	1226.5	1225.6	1224.6	1223.7	1222.8
150°	1247.5	1248.8	1248.9	1247.7	1246.7	1245.6	1244.4
152.5°	1267.5	1268.9	1268.8	1267.2	1265.8	1264.3	1262.9
155°	1294.6	1295.9	1295.6	1293.8	1292.1	1290.3	1288.5
157.5°	1317.5	1319.0	1318.9	1317.2	1315.4	1313.7	1311.9
160°	1330.6	1331.9	1331.8	1330.3	1328.7	1327.2	1325.6
162.5°	1343.1	1344.7	1344.4	1342.6	1340.7	1338.7	1336.8
165°	1358.3	1359.9	1359.9	1358.3	1356.8	1355.2	1353.7
167.5°	1370.9	1372.5	1372.2	1370.3	1368.3	1366.3	1364.2
170°	1377.3	1378.9	1378.7	1376.7	1374.7	1372.7	1370.6
172.5°	1382.1	1383.7	1383.6	1381.5	1379.5	1377.5	1375.5
175°	1387.4	1388.9	1388.6	1386.4	1384.1	1382.0	1379.7
177.5°	1387.6	1388.9	1388.7	1387.1	1385.5	1383.9	1382.3
180°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7

(END OF REPORT)