

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: P331853-840

Luminaire Tested: **S122RDIW-S1005D970U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331853-840  
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: S122RDIW-S1005D970U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7760.4 lumens  
Efficiency: N/A  
Efficacy: 115.1 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

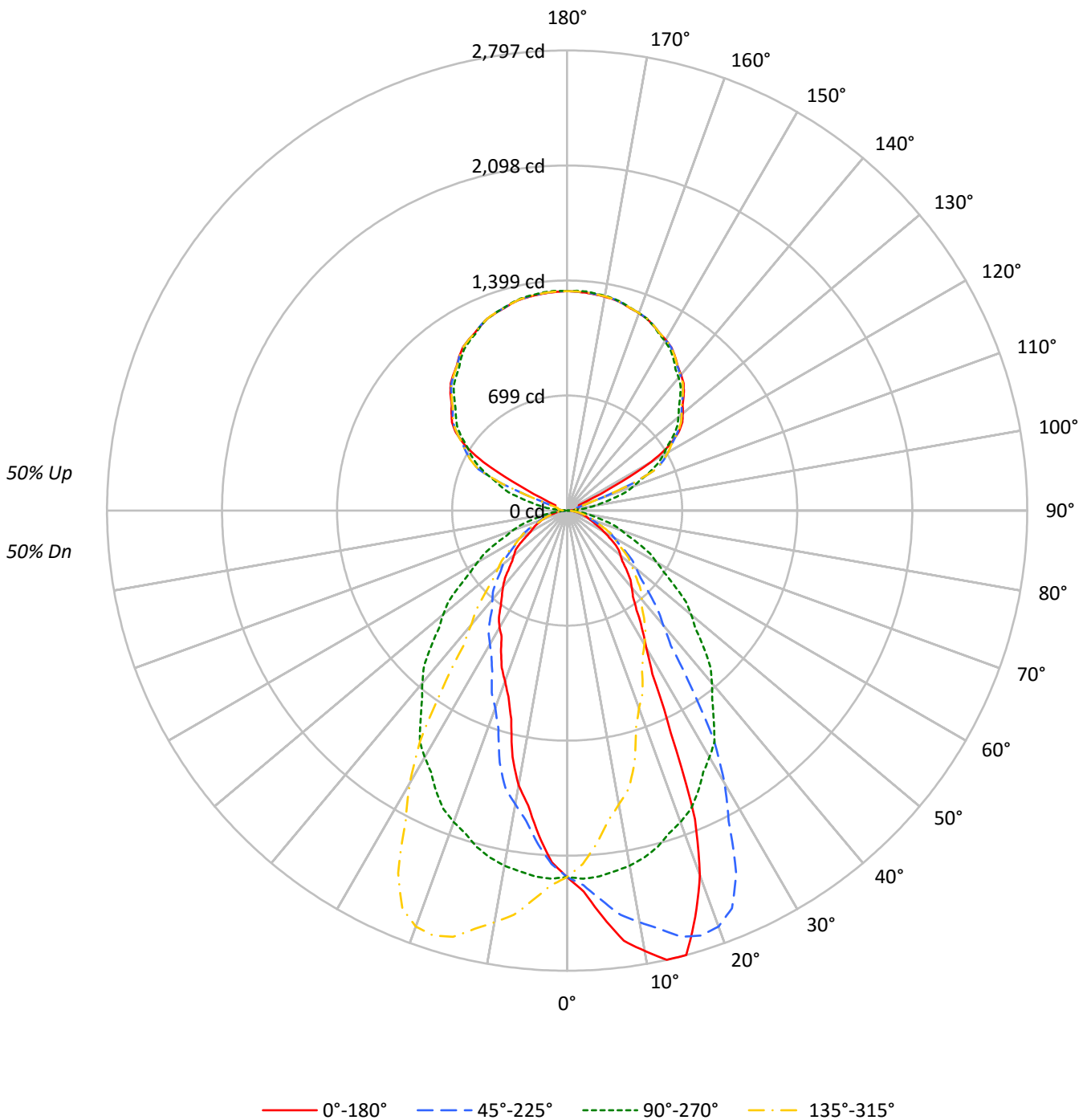
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	31	34	30	27	29	26	24	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

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

	0°	90°	180°	270°
0°	35960	35960	35960	35960
5°	40161	36185	32083	36185
10°	44558	35931	27811	35931
15°	46748	35405	21912	35405
20°	40527	34625	18962	34625
25°	26580	33556	16930	33556
30°	17890	32261	15321	32261
35°	14491	30628	13819	30628
40°	12886	28854	12787	28854
45°	11663	26772	11415	26772
50°	10613	24707	10575	24707
55°	9979	22415	9847	22415
60°	8344	20315	8247	20315
65°	7037	18449	7981	18449
70°	6500	16475	7530	16475
75°	6089	14336	6949	14336
80°	5616	11799	6192	11799
85°	5169	9318	5446	9318



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	2.7
10°-20°	588.3	7.6
20°-30°	758.1	9.8
30°-40°	720.4	9.3
40°-50°	617.1	8.0
50°-60°	470.0	6.1
60°-70°	297.1	3.8
70°-80°	148.4	1.9
80°-90°	41.9	0.5
90°-100°	44.5	0.6
100°-110°	163.1	2.1
110°-120°	436.1	5.6
120°-130°	719.8	9.3
130°-140°	765.5	9.9
140°-150°	711.5	9.2
150°-160°	572.1	7.4
160°-170°	368.6	4.8
170°-180°	126.9	1.6
0°-30°	1557.5	20.1
0°-40°	2277.9	29.4
0°-60°	3365.0	43.4
0°-90°	3852.4	49.6
90°-120°	643.7	8.3
90°-150°	2840.5	36.6
90°-180°	3908.0	50.4
0°-180°	7760.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2227	2227	2227	2227	2227	
5°	2478	2233	1980	2233	2478	245
15°	2797	2118	1311	2118	2797	754
25°	1492	1884	950	1884	1492	708
35°	735	1554	701	1554	735	470
45°	511	1172	500	1172	511	395
55°	354	796	350	796	354	311
65°	184	483	209	483	184	187
75°	98	230	111	230	98	103
85°	28	50	29	50	28	31
90°	26	1	26	1	26	13
95°	42	63	42	63	42	39
105°	73	293	73	293	73	76
115°	79	555	79	555	79	198
125°	825	784	825	784	825	714
135°	1003	971	1003	971	1003	773
145°	1144	1126	1144	1126	1144	715
155°	1241	1240	1241	1240	1241	573
165°	1304	1307	1304	1307	1304	368
175°	1329	1336	1329	1336	1329	127
180°	1334	1334	1334	1334	1334	



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2317.5	2319.5	2321.3	2316.9	2316.9	2313.2	2305.2	2299.0	2281.7	2279.2	2279.2
5°	2477.9	2476.4	2479.4	2469.4	2455.5	2452.4	2437.7	2418.3	2398.2	2375.8	2371.2
7.5°	2637.4	2635.0	2628.8	2627.2	2616.5	2593.0	2569.4	2544.2	2510.7	2478.1	2461.6
10°	2717.8	2743.4	2727.8	2700.8	2706.2	2669.9	2650.5	2617.3	2589.4	2540.6	2529.8
12.5°	2797.0	2807.1	2802.2	2786.8	2779.9	2754.6	2728.5	2699.6	2648.2	2604.3	2566.3
15°	2796.7	2811.5	2815.3	2810.7	2814.6	2813.0	2799.0	2775.1	2730.2	2682.2	2640.4
17.5°	2590.3	2600.5	2625.9	2643.0	2664.7	2710.6	2733.1	2742.0	2735.3	2708.0	2678.5
20°	2358.7	2341.7	2412.9	2449.3	2480.2	2557.6	2624.1	2649.7	2690.7	2690.0	2682.2
22.5°	2030.6	2034.7	2102.1	2145.4	2235.7	2313.1	2388.9	2485.1	2564.5	2616.9	2647.6
25°	1492.0	1521.5	1588.7	1647.6	1748.2	1892.1	2022.9	2174.5	2317.7	2430.7	2538.3
27.5°	1120.5	1122.8	1176.1	1230.4	1290.2	1408.2	1572.8	1753.9	1958.0	2126.5	2320.2
30°	959.6	954.9	977.3	1010.7	1061.8	1153.1	1276.9	1454.9	1658.4	1912.2	2138.2
32.5°	845.7	846.0	862.8	887.5	929.9	991.5	1076.3	1220.8	1413.2	1662.7	1927.7
35°	735.2	734.4	746.8	764.6	782.3	821.8	879.9	955.7	1088.0	1321.0	1591.9
37.5°	655.9	659.3	665.4	676.5	696.2	718.1	753.0	803.9	898.2	1035.9	1263.5
40°	611.4	612.9	621.4	630.7	642.3	659.3	687.9	729.0	797.9	907.8	1074.1
42.5°	570.5	572.1	578.0	586.7	595.9	612.9	636.6	672.1	727.9	813.6	950.9
45°	510.8	510.8	516.1	520.1	530.1	545.5	564.9	594.3	633.0	696.5	787.8
47.5°	454.7	454.8	458.5	465.1	471.4	483.5	502.5	526.5	554.7	603.8	681.8
50°	422.5	423.3	425.7	431.0	434.9	445.8	460.5	481.3	510.8	548.7	613.7
52.5°	396.6	396.1	399.0	401.3	403.9	411.7	422.7	441.1	467.4	500.4	554.2
55°	354.5	351.3	356.0	359.8	362.1	365.3	371.4	383.0	405.5	433.3	473.6
57.5°	301.8	300.5	303.9	307.4	314.7	323.1	328.3	335.7	347.3	367.3	407.2
60°	258.4	258.4	265.4	267.7	276.3	287.1	297.9	304.2	315.8	328.9	358.3
62.5°	220.0	220.8	224.0	226.3	231.1	244.4	259.5	273.2	284.2	296.7	316.2
65°	184.2	185.7	185.7	187.2	190.4	193.5	199.7	210.5	229.8	247.6	262.4
67.5°	156.3	156.8	157.2	158.8	159.6	163.0	165.4	170.3	174.7	191.6	209.8
70°	137.7	140.1	139.3	140.9	141.6	143.2	146.2	148.6	155.5	159.5	170.3
72.5°	120.4	122.1	122.0	122.9	124.9	125.2	127.6	130.0	134.5	137.7	143.6
75°	97.6	96.7	97.6	99.1	99.9	100.6	100.6	103.7	106.0	109.1	113.0
77.5°	75.2	76.0	75.8	76.0	76.1	77.6	77.4	78.8	81.1	82.6	84.5
80°	60.4	61.1	60.4	61.1	61.9	62.7	61.9	62.7	65.0	66.6	66.6
82.5°	46.8	46.9	47.4	47.6	47.7	47.9	48.9	49.1	50.8	50.5	51.1
85°	27.9	27.1	27.1	27.1	27.9	28.7	27.9	27.9	28.7	28.7	28.7
87.5°	15.1	15.7	15.6	15.5	15.3	15.2	15.0	15.5	14.6	15.0	14.0
90°	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4	20.4	19.3	17.6
92.5°	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5	22.9	22.4	21.5
95°	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8	38.7	37.7	36.2
97.5°	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1	51.2	50.4	46.9
100°	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5	56.8	55.0	51.4
102.5°	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0	58.8	56.6	87.1
105°	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6	61.2	58.9	117.4
107.5°	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6	80.0	82.4	152.6
110°	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9	147.4	168.8	230.9



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4	347.7	426.0	441.2
115°	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8	496.0	595.4	590.1
117.5°	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4	635.4	659.4	655.8
120°	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5	709.9	707.3	703.5
122.5°	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0	754.4	752.9	748.6
125°	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4	816.9	815.4	811.3
127.5°	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2	873.9	871.7	868.7
130°	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7	910.4	908.1	905.6
132.5°	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4	946.3	944.3	941.9
135°	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2	997.0	994.9	992.9
137.5°	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3	1044.3	1042.2	1040.0
140°	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9	1075.0	1073.1	1070.7
142.5°	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1	1103.4	1101.6	1098.9
145°	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6	1143.1	1141.6	1137.9
147.5°	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9	1177.8	1176.7	1173.1
150°	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1	1198.8	1197.5	1194.1
152.5°	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4	1218.1	1216.8	1213.6
155°	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5	1244.2	1242.8	1240.3
157.5°	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4	1266.0	1264.5	1262.6
160°	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2	1278.9	1277.6	1276.4
162.5°	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1	1290.6	1289.2	1288.1
165°	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6	1303.0
167.5°	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8	1317.3	1315.9	1315.2
170°	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0	1323.5	1322.0	1321.6
172.5°	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6	1328.2	1326.7	1326.2
175°	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6	1333.1	1331.6	1331.2
177.5°	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2	1334.0	1332.8	1332.6
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2280.5	2275.4	2271.2	2260.0	2254.4	2242.0	2240.2	2239.6	2223.5	2208.0	2203.6
5°	2358.7	2346.3	2327.8	2306.1	2283.7	2260.5	2245.0	2232.6	2201.6	2172.2	2155.3
7.5°	2437.7	2411.1	2379.0	2338.0	2303.8	2265.4	2237.0	2211.4	2167.5	2125.4	2097.0
10°	2496.5	2453.2	2410.5	2354.1	2310.0	2266.6	2226.4	2191.6	2142.0	2086.4	2046.9
12.5°	2533.0	2485.4	2426.7	2371.5	2314.3	2259.3	2205.3	2160.6	2102.4	2044.9	1998.0
15°	2582.4	2531.3	2460.1	2381.2	2307.6	2235.7	2173.8	2118.1	2042.3	1973.4	1916.1
17.5°	2622.8	2552.5	2476.1	2384.8	2299.7	2208.2	2128.5	2057.3	1972.9	1889.8	1822.3
20°	2635.7	2566.2	2477.9	2386.6	2286.0	2178.5	2092.5	2015.2	1924.6	1834.0	1756.7
22.5°	2627.8	2573.5	2475.5	2366.2	2263.1	2150.6	2053.6	1963.8	1863.3	1770.9	1681.1
25°	2573.1	2554.6	2461.6	2342.5	2224.8	2094.1	1981.9	1883.6	1769.1	1670.0	1572.5
27.5°	2445.7	2485.8	2428.2	2301.3	2170.5	2030.3	1904.2	1792.3	1673.4	1562.0	1464.8
30°	2323.2	2415.2	2390.5	2272.8	2126.6	1988.8	1847.2	1730.4	1603.5	1488.9	1393.0
32.5°	2155.4	2307.5	2331.7	2233.2	2082.0	1930.7	1782.2	1666.0	1533.5	1412.8	1319.3
35°	1888.2	2115.8	2220.2	2157.6	2005.9	1842.6	1689.3	1553.9	1420.8	1301.6	1208.8
37.5°	1569.5	1879.5	2053.6	2058.0	1918.7	1749.0	1582.1	1447.6	1311.4	1194.4	1094.0
40°	1362.8	1698.6	1925.4	1975.7	1858.1	1674.7	1505.9	1369.0	1235.9	1121.4	1006.0
42.5°	1177.1	1511.7	1790.4	1877.8	1784.4	1602.3	1432.9	1289.7	1160.3	1052.0	934.2
45°	951.9	1244.4	1551.6	1707.9	1656.1	1487.3	1308.6	1172.5	1050.9	957.3	844.2
47.5°	802.9	1009.2	1306.5	1517.8	1516.9	1362.9	1187.1	1056.6	943.9	856.2	764.8
50°	718.1	897.7	1149.2	1389.1	1409.2	1280.0	1112.8	983.6	878.4	786.3	712.8
52.5°	642.0	789.9	1016.1	1246.1	1303.3	1191.4	1029.3	909.9	807.8	723.1	660.1
55°	542.5	657.0	828.8	1043.9	1130.6	1051.7	907.8	796.3	713.5	642.3	588.1
57.5°	458.9	544.8	682.7	855.9	956.8	907.2	788.4	697.9	627.0	562.6	519.9
60°	406.3	476.7	593.6	738.3	849.7	814.9	713.5	629.1	568.8	513.1	472.8
62.5°	356.8	417.3	517.5	634.9	737.0	722.7	639.9	569.1	516.1	465.4	431.3
65°	287.1	331.2	409.4	501.5	583.5	590.5	530.9	482.9	435.7	395.5	365.3
67.5°	228.6	257.4	312.5	390.0	451.5	473.4	437.1	400.4	362.9	331.8	305.7
70°	192.7	215.9	256.1	318.8	375.4	398.5	377.7	349.0	316.5	290.9	268.5
72.5°	156.1	178.7	208.4	254.5	302.9	328.0	320.7	300.1	273.8	252.6	231.4
75°	117.6	124.6	144.7	175.7	213.6	235.3	240.7	229.8	208.9	192.7	180.3
77.5°	86.9	91.2	100.8	117.0	141.8	161.1	169.1	167.7	153.4	143.9	132.3
80°	69.7	72.0	76.6	83.6	102.2	121.5	126.9	126.9	116.8	113.0	101.4
82.5°	52.9	54.6	57.5	61.3	70.0	86.8	92.9	94.1	87.8	82.6	73.5
85°	30.2	29.4	31.0	33.3	34.8	39.5	48.8	50.3	48.8	42.5	40.2
87.5°	13.7	13.9	13.6	12.6	12.7	12.9	15.6	18.2	16.2	14.7	14.0
90°	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5	19.3	19.1	18.9
95°	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7	55.6	48.6	41.5
97.5°	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5	104.5	84.6	64.6
100°	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8	141.4	112.0	82.7
102.5°	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8	215.5	209.3	203.1
105°	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4	299.8	306.2	312.7
107.5°	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0	380.2	385.4	390.5
110°	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5	432.0	436.5	441.0





TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9	480.9	484.8	488.9
115°	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8	558.5	562.2	565.8
117.5°	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5	628.6	632.7	636.7
120°	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5	678.7	681.9	685.1
122.5°	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7	722.1	725.5	728.8
125°	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5	787.3	790.1	792.8
127.5°	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1	847.3	850.3	853.4
130°	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0	885.4	888.9	892.2
132.5°	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6	923.5	926.5	929.3
135°	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8	974.2	977.7	981.1
137.5°	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5	1023.9	1026.3	1028.7
140°	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7	1056.4	1058.1	1059.9
142.5°	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5	1084.0	1085.6	1087.1
145°	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1	1125.9	1125.7	1125.5
147.5°	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2	1163.3	1162.5	1161.6
150°	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8	1187.3	1185.8	1184.4
152.5°	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7	1208.0	1206.3	1204.7
155°	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0	1238.0	1236.1	1234.2
157.5°	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7	1262.1	1260.4	1258.8
160°	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1276.4	1275.1	1273.7
162.5°	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0	1288.7	1287.4	1286.1
165°	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6	1305.3	1303.9	1302.7
167.5°	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9	1317.6	1316.4	1315.0
170°	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9	1324.5	1323.3	1322.0
172.5°	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5	1329.2	1327.9	1326.7
175°	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5	1334.9	1333.4	1332.0
177.5°	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5	1336.3	1335.0	1333.8
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2195.6	2191.3	2183.2	2170.8	2163.4	2150.4	2141.7	2146.7	2148.0	2146.7	2145.5
5°	2136.7	2120.4	2098.0	2076.3	2056.2	2034.5	2022.2	2016.7	2005.9	1999.6	1996.6
7.5°	2065.3	2037.3	2005.6	1967.8	1935.7	1902.2	1885.0	1876.4	1854.3	1842.3	1831.7
10°	2012.1	1967.9	1936.2	1886.7	1856.5	1812.4	1782.2	1783.0	1752.8	1735.8	1723.4
12.5°	1953.3	1904.8	1852.0	1807.5	1765.5	1730.1	1693.6	1679.0	1647.0	1630.5	1597.1
15°	1855.7	1799.3	1743.5	1683.1	1640.6	1585.7	1533.1	1468.8	1416.9	1372.1	1359.7
17.5°	1749.3	1679.3	1623.5	1552.6	1479.7	1387.3	1326.3	1289.0	1257.7	1234.1	1216.4
20°	1676.2	1605.0	1545.4	1438.7	1340.3	1277.7	1232.7	1204.2	1171.6	1146.1	1132.2
22.5°	1599.4	1525.1	1443.9	1324.7	1248.1	1197.8	1157.8	1124.9	1102.9	1083.0	1070.3
25°	1490.5	1409.2	1275.4	1193.3	1131.4	1078.7	1050.9	1030.8	1007.5	980.5	968.2
27.5°	1375.3	1246.1	1149.9	1088.9	1029.9	995.6	970.6	940.6	919.8	907.6	894.7
30°	1289.3	1160.0	1085.0	1018.4	976.6	938.7	909.3	892.3	872.1	851.2	842.7
32.5°	1193.3	1090.0	1018.1	962.7	920.3	888.0	864.7	837.2	822.6	809.8	791.9
35°	1074.1	995.9	930.2	885.3	845.1	818.8	791.6	775.4	749.1	738.3	731.3
37.5°	973.2	905.4	856.4	809.0	777.1	748.0	731.4	705.6	694.2	679.1	664.5
40°	916.3	849.7	802.5	763.8	728.2	706.5	685.6	664.8	647.7	640.8	623.0
42.5°	858.1	803.9	756.7	714.3	690.4	667.5	641.1	625.7	608.1	596.8	585.8
45°	777.7	729.7	689.5	654.7	628.3	604.4	587.3	561.8	551.8	529.4	520.1
47.5°	707.2	662.6	624.2	591.1	565.4	549.8	524.8	504.8	488.8	475.0	463.1
50°	657.0	619.9	582.7	553.3	530.1	507.7	482.1	472.0	447.3	440.3	433.3
52.5°	611.2	575.9	541.9	513.1	489.9	468.1	445.6	432.4	415.8	408.8	403.6
55°	547.1	513.1	480.6	455.0	431.8	409.4	395.5	379.2	371.4	366.1	359.8
57.5°	482.7	452.1	427.2	401.3	378.0	360.1	344.1	334.3	326.3	319.1	311.7
60°	441.9	412.4	390.0	366.1	342.0	327.3	315.0	303.4	294.1	283.3	280.1
62.5°	398.5	372.8	352.2	328.9	308.0	294.6	282.8	271.8	260.6	244.9	240.5
65°	338.9	318.8	297.2	277.8	259.2	246.1	229.0	216.7	212.1	210.5	209.7
67.5°	285.1	266.1	247.5	227.6	210.8	198.5	190.0	188.0	184.8	183.9	181.7
70°	249.2	231.4	212.8	194.2	178.0	175.7	172.6	169.5	165.6	164.1	162.5
72.5°	217.0	198.5	180.0	165.1	158.1	155.2	152.2	149.1	146.4	144.9	143.9
75°	166.4	149.4	136.9	131.6	127.6	125.3	120.7	118.4	116.8	114.5	113.7
77.5°	119.8	110.2	104.5	101.1	97.0	94.5	91.9	89.6	88.0	87.5	86.2
80°	91.3	86.6	82.8	78.2	76.6	73.5	72.7	70.4	71.2	68.9	68.9
82.5°	70.9	65.0	61.8	59.6	58.1	55.5	54.8	53.7	53.8	52.1	52.1
85°	36.4	34.8	33.3	31.7	31.7	29.4	30.2	29.4	29.4	27.9	27.1
87.5°	13.8	13.6	12.7	13.1	13.4	13.1	13.3	12.9	13.1	13.4	12.9
90°	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4	22.5	23.6	24.3
92.5°	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5	24.0	24.6	25.0
95°	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8	40.9	41.9	42.3
97.5°	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1	52.9	53.8	54.3
100°	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5	60.2	61.9	62.9
102.5°	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0	63.2	65.4	66.9
105°	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6	65.9	68.3	69.9
107.5°	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6	75.2	72.8	72.0
110°	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9	104.5	83.1	72.8



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4	191.3	113.0	74.2
115°	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8	297.5	198.2	140.9
117.5°	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4	587.4	563.4	526.0
120°	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5	715.0	717.6	704.4
122.5°	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0	757.5	759.0	757.0
125°	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4	819.9	821.4	822.4
127.5°	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2	878.3	880.5	881.6
130°	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7	915.1	917.5	918.6
132.5°	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4	950.4	952.4	953.3
135°	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2	1001.3	1003.4	1004.3
137.5°	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3	1048.4	1050.6	1051.3
140°	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9	1078.8	1080.8	1081.2
142.5°	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1	1106.9	1108.6	1108.9
145°	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6	1146.1	1147.5	1147.8
147.5°	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9	1180.0	1181.1	1181.2
150°	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1	1201.3	1202.6	1202.7
152.5°	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4	1220.6	1221.9	1221.9
155°	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5	1246.7	1248.0	1247.8
157.5°	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4	1268.9	1270.3	1270.2
160°	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2	1281.4	1282.7	1282.6
162.5°	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1	1293.5	1295.1	1294.8
165°	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7
167.5°	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8	1320.3	1321.8	1321.6
170°	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0	1326.5	1328.0	1327.8
172.5°	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6	1331.1	1332.6	1332.4
175°	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6	1336.2	1337.7	1337.4
177.5°	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2	1336.4	1337.6	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2138.7	2139.9	2138.1	2139.3	2138.1	2139.9	2138.7	2145.5	2146.7	2148.0	2146.7
5°	1992.7	1983.4	1981.9	1979.5	1981.9	1983.4	1992.7	1996.6	1999.6	2005.9	2016.7
7.5°	1818.5	1817.1	1813.2	1807.8	1813.2	1817.1	1818.5	1831.7	1842.3	1854.3	1876.4
10°	1706.4	1702.5	1701.7	1696.3	1701.7	1702.5	1706.4	1723.4	1735.8	1752.8	1783.0
12.5°	1575.1	1550.2	1547.6	1534.1	1547.6	1550.2	1575.1	1597.1	1630.5	1647.0	1679.0
15°	1341.1	1336.5	1321.0	1310.9	1321.0	1336.5	1341.1	1359.7	1372.1	1416.9	1468.8
17.5°	1207.4	1192.2	1187.4	1185.3	1187.4	1192.2	1207.4	1216.4	1234.1	1257.7	1289.0
20°	1121.4	1107.4	1105.1	1103.6	1105.1	1107.4	1121.4	1132.2	1146.1	1171.6	1204.2
22.5°	1061.9	1047.3	1041.3	1036.6	1041.3	1047.3	1061.9	1070.3	1083.0	1102.9	1124.9
25°	960.4	954.9	951.9	950.3	951.9	954.9	960.4	968.2	980.5	1007.5	1030.8
27.5°	881.0	869.1	866.8	862.7	866.8	869.1	881.0	894.7	907.6	919.8	940.6
30°	835.8	831.9	826.5	821.8	826.5	831.9	835.8	842.7	851.2	872.1	892.3
32.5°	782.5	779.3	774.5	772.3	774.5	779.3	782.5	791.9	809.8	822.6	837.2
35°	723.6	712.8	708.1	701.1	708.1	712.8	723.6	731.3	738.3	749.1	775.4
37.5°	661.2	655.5	648.9	651.3	648.9	655.5	661.2	664.5	679.1	694.2	705.6
40°	612.9	609.0	607.5	606.7	607.5	609.0	612.9	623.0	640.8	647.7	664.8
42.5°	574.5	563.8	559.8	559.7	559.8	563.8	574.5	585.8	596.8	608.1	625.7
45°	516.1	506.1	499.2	499.9	499.2	506.1	516.1	520.1	529.4	551.8	561.8
47.5°	456.5	456.2	451.8	453.1	451.8	456.2	456.5	463.1	475.0	488.8	504.8
50°	428.0	423.3	420.2	421.0	420.2	423.3	428.0	433.3	440.3	447.3	472.0
52.5°	400.7	396.7	394.3	397.5	394.3	396.7	400.7	403.6	408.8	415.8	432.4
55°	356.0	351.3	350.5	349.8	350.5	351.3	356.0	359.8	366.1	371.4	379.2
57.5°	306.0	302.9	298.2	296.2	298.2	302.9	306.0	311.7	319.1	326.3	334.3
60°	270.0	263.9	256.1	255.4	256.1	263.9	270.0	280.1	283.3	294.1	303.4
62.5°	237.2	236.0	234.5	234.3	234.5	236.0	237.2	240.5	244.9	260.6	271.8
65°	208.1	207.4	208.1	208.9	208.1	207.4	208.1	209.7	210.5	212.1	216.7
67.5°	181.4	180.0	178.6	179.3	178.6	180.0	181.4	181.7	183.9	184.8	188.0
70°	161.0	160.2	159.5	159.5	159.5	160.2	161.0	162.5	164.1	165.6	169.5
72.5°	141.2	141.0	140.3	139.6	140.3	141.0	141.2	143.9	144.9	146.4	149.1
75°	113.0	111.4	111.4	111.4	111.4	111.4	113.0	113.7	114.5	116.8	118.4
77.5°	86.0	85.2	84.5	83.9	84.5	85.2	86.0	86.2	87.5	88.0	89.6
80°	68.1	67.4	66.6	66.6	66.6	67.4	68.1	68.9	68.9	71.2	70.4
82.5°	52.0	51.2	51.1	50.5	51.1	51.2	52.0	52.1	52.1	53.8	53.7
85°	27.9	28.7	27.9	29.4	27.9	28.7	27.9	27.1	27.9	29.4	29.4
87.5°	13.0	12.4	13.1	12.6	13.1	12.4	13.0	12.9	13.4	13.1	12.9
90°	24.7	25.1	25.7	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4
92.5°	25.2	25.5	25.8	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5
95°	42.1	41.9	41.7	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8
97.5°	54.6	54.8	55.1	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1
100°	63.3	63.8	64.2	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5
102.5°	67.5	68.1	68.7	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0
105°	70.8	71.6	72.5	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6
107.5°	72.9	73.7	74.6	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6
110°	73.6	74.5	75.3	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.9	75.6	76.3	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4
115°	125.4	110.0	94.5	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8
117.5°	475.2	424.5	373.9	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4
120°	675.5	646.5	617.5	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5
122.5°	751.3	745.8	740.1	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0
125°	823.1	823.7	824.4	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4
127.5°	881.8	881.9	882.0	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2
130°	918.3	918.1	917.9	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7
132.5°	953.0	952.8	952.6	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4
135°	1003.9	1003.4	1003.0	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2
137.5°	1050.6	1049.8	1049.0	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3
140°	1080.2	1079.0	1077.9	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9
142.5°	1107.9	1106.8	1105.8	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1
145°	1146.7	1145.6	1144.6	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6
147.5°	1180.3	1179.4	1178.5	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9
150°	1201.7	1200.6	1199.5	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1
152.5°	1220.5	1219.1	1217.7	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4
155°	1246.1	1244.4	1242.6	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5
157.5°	1268.5	1266.9	1265.2	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4
160°	1281.1	1279.6	1278.2	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2
162.5°	1292.9	1291.1	1289.3	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1
165°	1308.2	1306.7	1305.1	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7
167.5°	1319.7	1317.8	1315.9	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8
170°	1325.9	1323.9	1322.0	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0
172.5°	1330.5	1328.6	1326.7	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6
175°	1335.1	1333.0	1330.9	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6
177.5°	1335.8	1334.3	1332.8	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2141.7	2150.4	2163.4	2170.8	2183.2	2191.3	2195.6	2203.6	2208.0	2223.5	2239.6
5°	2022.2	2034.5	2056.2	2076.3	2098.0	2120.4	2136.7	2155.3	2172.2	2201.6	2232.6
7.5°	1885.0	1902.2	1935.7	1967.8	2005.6	2037.3	2065.3	2097.0	2125.4	2167.5	2211.4
10°	1782.2	1812.4	1856.5	1886.7	1936.2	1967.9	2012.1	2046.9	2086.4	2142.0	2191.6
12.5°	1693.6	1730.1	1765.5	1807.5	1852.0	1904.8	1953.3	1998.0	2044.9	2102.4	2160.6
15°	1533.1	1585.7	1640.6	1683.1	1743.5	1799.3	1855.7	1916.1	1973.4	2042.3	2118.1
17.5°	1326.3	1387.3	1479.7	1552.6	1623.5	1679.3	1749.3	1822.3	1889.8	1972.9	2057.3
20°	1232.7	1277.7	1340.3	1438.7	1545.4	1605.0	1676.2	1756.7	1834.0	1924.6	2015.2
22.5°	1157.8	1197.8	1248.1	1324.7	1443.9	1525.1	1599.4	1681.1	1770.9	1863.3	1963.8
25°	1050.9	1078.7	1131.4	1193.3	1275.4	1409.2	1490.5	1572.5	1670.0	1769.1	1883.6
27.5°	970.6	995.6	1029.9	1088.9	1149.9	1246.1	1375.3	1464.8	1562.0	1673.4	1792.3
30°	909.3	938.7	976.6	1018.4	1085.0	1160.0	1289.3	1393.0	1488.9	1603.5	1730.4
32.5°	864.7	888.0	920.3	962.7	1018.1	1090.0	1193.3	1319.3	1412.8	1533.5	1666.0
35°	791.6	818.8	845.1	885.3	930.2	995.9	1074.1	1208.8	1301.6	1420.8	1553.9
37.5°	731.4	748.0	777.1	809.0	856.4	905.4	973.2	1094.0	1194.4	1311.4	1447.6
40°	685.6	706.5	728.2	763.8	802.5	849.7	916.3	1006.0	1121.4	1235.9	1369.0
42.5°	641.1	667.5	690.4	714.3	756.7	803.9	858.1	934.2	1052.0	1160.3	1289.7
45°	587.3	604.4	628.3	654.7	689.5	729.7	777.7	844.2	957.3	1050.9	1172.5
47.5°	524.8	549.8	565.4	591.1	624.2	662.6	707.2	764.8	856.2	943.9	1056.6
50°	482.1	507.7	530.1	553.3	582.7	619.9	657.0	712.8	786.3	878.4	983.6
52.5°	445.6	468.1	489.9	513.1	541.9	575.9	611.2	660.1	723.1	807.8	909.9
55°	395.5	409.4	431.8	455.0	480.6	513.1	547.1	588.1	642.3	713.5	796.3
57.5°	344.1	360.1	378.0	401.3	427.2	452.1	482.7	519.9	562.6	627.0	697.9
60°	315.0	327.3	342.0	366.1	390.0	412.4	441.9	472.8	513.1	568.8	629.1
62.5°	282.8	294.6	308.0	328.9	352.2	372.8	398.5	431.3	465.4	516.1	569.1
65°	229.0	246.1	259.2	277.8	297.2	318.8	338.9	365.3	395.5	435.7	482.9
67.5°	190.0	198.5	210.8	227.6	247.5	266.1	285.1	305.7	331.8	362.9	400.4
70°	172.6	175.7	178.0	194.2	212.8	231.4	249.2	268.5	290.9	316.5	349.0
72.5°	152.2	155.2	158.1	165.1	180.0	198.5	217.0	231.4	252.6	273.8	300.1
75°	120.7	125.3	127.6	131.6	136.9	149.4	166.4	180.3	192.7	208.9	229.8
77.5°	91.9	94.5	97.0	101.1	104.5	110.2	119.8	132.3	143.9	153.4	167.7
80°	72.7	73.5	76.6	78.2	82.8	86.6	91.3	101.4	113.0	116.8	126.9
82.5°	54.8	55.5	58.1	59.6	61.8	65.0	70.9	73.5	82.6	87.8	94.1
85°	30.2	29.4	31.7	31.7	33.3	34.8	36.4	40.2	42.5	48.8	50.3
87.5°	13.3	13.1	13.4	13.1	12.7	13.6	13.8	14.0	14.7	16.2	18.2
90°	20.4	19.3	17.6	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0
92.5°	22.9	22.4	21.5	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5
95°	38.7	37.7	36.2	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7
97.5°	51.2	50.4	46.9	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5
100°	56.8	55.0	51.4	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8
102.5°	58.8	56.6	87.1	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8
105°	61.2	58.9	117.4	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4
107.5°	80.0	82.4	152.6	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0
110°	147.4	168.8	230.9	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.7	426.0	441.2	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9
115°	496.0	595.4	590.1	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8
117.5°	635.4	659.4	655.8	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5
120°	709.9	707.3	703.5	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5
122.5°	754.4	752.9	748.6	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7
125°	816.9	815.4	811.3	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5
127.5°	873.9	871.7	868.7	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1
130°	910.4	908.1	905.6	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0
132.5°	946.3	944.3	941.9	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6
135°	997.0	994.9	992.9	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8
137.5°	1044.3	1042.2	1040.0	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5
140°	1075.0	1073.1	1070.7	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7
142.5°	1103.4	1101.6	1098.9	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5
145°	1143.1	1141.6	1137.9	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1
147.5°	1177.8	1176.7	1173.1	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2
150°	1198.8	1197.5	1194.1	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8
152.5°	1218.1	1216.8	1213.6	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7
155°	1244.2	1242.8	1240.3	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0
157.5°	1266.0	1264.5	1262.6	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7
160°	1278.9	1277.6	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6
162.5°	1290.6	1289.2	1288.1	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0
165°	1305.1	1303.6	1303.0	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6
167.5°	1317.3	1315.9	1315.2	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9
170°	1323.5	1322.0	1321.6	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9
172.5°	1328.2	1326.7	1326.2	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5
175°	1333.1	1331.6	1331.2	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5
177.5°	1334.0	1332.8	1332.6	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2240.2	2242.0	2254.4	2260.0	2271.2	2275.4	2280.5	2279.2	2279.2	2281.7	2299.0
5°	2245.0	2260.5	2283.7	2306.1	2327.8	2346.3	2358.7	2371.2	2375.8	2398.2	2418.3
7.5°	2237.0	2265.4	2303.8	2338.0	2379.0	2411.1	2437.7	2461.6	2478.1	2510.7	2544.2
10°	2226.4	2266.6	2310.0	2354.1	2410.5	2453.2	2496.5	2529.8	2540.6	2589.4	2617.3
12.5°	2205.3	2259.3	2314.3	2371.5	2426.7	2485.4	2533.0	2566.3	2604.3	2648.2	2699.6
15°	2173.8	2235.7	2307.6	2381.2	2460.1	2531.3	2582.4	2640.4	2682.2	2730.2	2775.1
17.5°	2128.5	2208.2	2299.7	2384.8	2476.1	2552.5	2622.8	2678.5	2708.0	2735.3	2742.0
20°	2092.5	2178.5	2286.0	2386.6	2477.9	2566.2	2635.7	2682.2	2690.0	2690.7	2649.7
22.5°	2053.6	2150.6	2263.1	2366.2	2475.5	2573.5	2627.8	2647.6	2616.9	2564.5	2485.1
25°	1981.9	2094.1	2224.8	2342.5	2461.6	2554.6	2573.1	2538.3	2430.7	2317.7	2174.5
27.5°	1904.2	2030.3	2170.5	2301.3	2428.2	2485.8	2445.7	2320.2	2126.5	1958.0	1753.9
30°	1847.2	1988.8	2126.6	2272.8	2390.5	2415.2	2323.2	2138.2	1912.2	1658.4	1454.9
32.5°	1782.2	1930.7	2082.0	2233.2	2331.7	2307.5	2155.4	1927.7	1662.7	1413.2	1220.8
35°	1689.3	1842.6	2005.9	2157.6	2220.2	2115.8	1888.2	1591.9	1321.0	1088.0	955.7
37.5°	1582.1	1749.0	1918.7	2058.0	2053.6	1879.5	1569.5	1263.5	1035.9	898.2	803.9
40°	1505.9	1674.7	1858.1	1975.7	1925.4	1698.6	1362.8	1074.1	907.8	797.9	729.0
42.5°	1432.9	1602.3	1784.4	1877.8	1790.4	1511.7	1177.1	950.9	813.6	727.9	672.1
45°	1308.6	1487.3	1656.1	1707.9	1551.6	1244.4	951.9	787.8	696.5	633.0	594.3
47.5°	1187.1	1362.9	1516.9	1517.8	1306.5	1009.2	802.9	681.8	603.8	554.7	526.5
50°	1112.8	1280.0	1409.2	1389.1	1149.2	897.7	718.1	613.7	548.7	510.8	481.3
52.5°	1029.3	1191.4	1303.3	1246.1	1016.1	789.9	642.0	554.2	500.4	467.4	441.1
55°	907.8	1051.7	1130.6	1043.9	828.8	657.0	542.5	473.6	433.3	405.5	383.0
57.5°	788.4	907.2	956.8	855.9	682.7	544.8	458.9	407.2	367.3	347.3	335.7
60°	713.5	814.9	849.7	738.3	593.6	476.7	406.3	358.3	328.9	315.8	304.2
62.5°	639.9	722.7	737.0	634.9	517.5	417.3	356.8	316.2	296.7	284.2	273.2
65°	530.9	590.5	583.5	501.5	409.4	331.2	287.1	262.4	247.6	229.8	210.5
67.5°	437.1	473.4	451.5	390.0	312.5	257.4	228.6	209.8	191.6	174.7	170.3
70°	377.7	398.5	375.4	318.8	256.1	215.9	192.7	170.3	159.5	155.5	148.6
72.5°	320.7	328.0	302.9	254.5	208.4	178.7	156.1	143.6	137.7	134.5	130.0
75°	240.7	235.3	213.6	175.7	144.7	124.6	117.6	113.0	109.1	106.0	103.7
77.5°	169.1	161.1	141.8	117.0	100.8	91.2	86.9	84.5	82.6	81.1	78.8
80°	126.9	121.5	102.2	83.6	76.6	72.0	69.7	66.6	66.6	65.0	62.7
82.5°	92.9	86.8	70.0	61.3	57.5	54.6	52.9	51.1	50.5	50.8	49.1
85°	48.8	39.5	34.8	33.3	31.0	29.4	30.2	28.7	28.7	28.7	27.9
87.5°	15.6	12.9	12.7	12.6	13.6	13.9	13.7	14.0	15.0	14.6	15.5
90°	3.3	5.7	8.1	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4
92.5°	19.3	19.1	18.9	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5
95°	55.6	48.6	41.5	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8
97.5°	104.5	84.6	64.6	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1
100°	141.4	112.0	82.7	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5
102.5°	215.5	209.3	203.1	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0
105°	299.8	306.2	312.7	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6
107.5°	380.2	385.4	390.5	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6
110°	432.0	436.5	441.0	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9





TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	480.9	484.8	488.9	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4
115°	558.5	562.2	565.8	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8
117.5°	628.6	632.7	636.7	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4
120°	678.7	681.9	685.1	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5
122.5°	722.1	725.5	728.8	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0
125°	787.3	790.1	792.8	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4
127.5°	847.3	850.3	853.4	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2
130°	885.4	888.9	892.2	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7
132.5°	923.5	926.5	929.3	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4
135°	974.2	977.7	981.1	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2
137.5°	1023.9	1026.3	1028.7	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3
140°	1056.4	1058.1	1059.9	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9
142.5°	1084.0	1085.6	1087.1	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1
145°	1125.9	1125.7	1125.5	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6
147.5°	1163.3	1162.5	1161.6	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9
150°	1187.3	1185.8	1184.4	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1
152.5°	1208.0	1206.3	1204.7	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4
155°	1238.0	1236.1	1234.2	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5
157.5°	1262.1	1260.4	1258.8	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4
160°	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2
162.5°	1288.7	1287.4	1286.1	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1
165°	1305.3	1303.9	1302.7	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7
167.5°	1317.6	1316.4	1315.0	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8
170°	1324.5	1323.3	1322.0	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0
172.5°	1329.2	1327.9	1326.7	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6
175°	1334.9	1333.4	1332.0	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6
177.5°	1336.3	1335.0	1333.8	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2305.2	2313.2	2316.9	2316.9	2321.3	2319.5	2317.5
5°	2437.7	2452.4	2455.5	2469.4	2479.4	2476.4	2477.9
7.5°	2569.4	2593.0	2616.5	2627.2	2628.8	2635.0	2637.4
10°	2650.5	2669.9	2706.2	2700.8	2727.8	2743.4	2717.8
12.5°	2728.5	2754.6	2779.9	2786.8	2802.2	2807.1	2797.0
15°	2799.0	2813.0	2814.6	2810.7	2815.3	2811.5	2796.7
17.5°	2733.1	2710.6	2664.7	2643.0	2625.9	2600.5	2590.3
20°	2624.1	2557.6	2480.2	2449.3	2412.9	2341.7	2358.7
22.5°	2388.9	2313.1	2235.7	2145.4	2102.1	2034.7	2030.6
25°	2022.9	1892.1	1748.2	1647.6	1588.7	1521.5	1492.0
27.5°	1572.8	1408.2	1290.2	1230.4	1176.1	1122.8	1120.5
30°	1276.9	1153.1	1061.8	1010.7	977.3	954.9	959.6
32.5°	1076.3	991.5	929.9	887.5	862.8	846.0	845.7
35°	879.9	821.8	782.3	764.6	746.8	734.4	735.2
37.5°	753.0	718.1	696.2	676.5	665.4	659.3	655.9
40°	687.9	659.3	642.3	630.7	621.4	612.9	611.4
42.5°	636.6	612.9	595.9	586.7	578.0	572.1	570.5
45°	564.9	545.5	530.1	520.1	516.1	510.8	510.8
47.5°	502.5	483.5	471.4	465.1	458.5	454.8	454.7
50°	460.5	445.8	434.9	431.0	425.7	423.3	422.5
52.5°	422.7	411.7	403.9	401.3	399.0	396.1	396.6
55°	371.4	365.3	362.1	359.8	356.0	351.3	354.5
57.5°	328.3	323.1	314.7	307.4	303.9	300.5	301.8
60°	297.9	287.1	276.3	267.7	265.4	258.4	258.4
62.5°	259.5	244.4	231.1	226.3	224.0	220.8	220.0
65°	199.7	193.5	190.4	187.2	185.7	185.7	184.2
67.5°	165.4	163.0	159.6	158.8	157.2	156.8	156.3
70°	146.2	143.2	141.6	140.9	139.3	140.1	137.7
72.5°	127.6	125.2	124.9	122.9	122.0	122.1	120.4
75°	100.6	100.6	99.9	99.1	97.6	96.7	97.6
77.5°	77.4	77.6	76.1	76.0	75.8	76.0	75.2
80°	61.9	62.7	61.9	61.1	60.4	61.1	60.4
82.5°	48.9	47.9	47.7	47.6	47.4	46.9	46.8
85°	27.9	28.7	27.9	27.1	27.1	27.1	27.9
87.5°	15.0	15.2	15.3	15.5	15.6	15.7	15.1
90°	22.5	23.6	24.3	24.7	25.1	25.7	26.1
92.5°	24.0	24.6	25.0	25.2	25.5	25.8	26.1
95°	40.9	41.9	42.3	42.1	41.9	41.7	41.5
97.5°	52.9	53.8	54.3	54.6	54.8	55.1	55.3
100°	60.2	61.9	62.9	63.3	63.8	64.2	64.6
102.5°	63.2	65.4	66.9	67.5	68.1	68.7	69.3
105°	65.9	68.3	69.9	70.8	71.6	72.5	73.3
107.5°	75.2	72.8	72.0	72.9	73.7	74.6	75.4
110°	104.5	83.1	72.8	73.6	74.5	75.3	76.2



TEST NUMBER: P331853-840

CATALOG NUMBER: S122RDIW-S1005D970U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	191.3	113.0	74.2	74.9	75.6	76.3	77.1
115°	297.5	198.2	140.9	125.4	110.0	94.5	79.2
117.5°	587.4	563.4	526.0	475.2	424.5	373.9	323.1
120°	715.0	717.6	704.4	675.5	646.5	617.5	588.7
122.5°	757.5	759.0	757.0	751.3	745.8	740.1	734.6
125°	819.9	821.4	822.4	823.1	823.7	824.4	825.1
127.5°	878.3	880.5	881.6	881.8	881.9	882.0	882.1
130°	915.1	917.5	918.6	918.3	918.1	917.9	917.7
132.5°	950.4	952.4	953.3	953.0	952.8	952.6	952.4
135°	1001.3	1003.4	1004.3	1003.9	1003.4	1003.0	1002.6
137.5°	1048.4	1050.6	1051.3	1050.6	1049.8	1049.0	1048.3
140°	1078.8	1080.8	1081.2	1080.2	1079.0	1077.9	1076.9
142.5°	1106.9	1108.6	1108.9	1107.9	1106.8	1105.8	1104.7
145°	1146.1	1147.5	1147.8	1146.7	1145.6	1144.6	1143.5
147.5°	1180.0	1181.1	1181.2	1180.3	1179.4	1178.5	1177.6
150°	1201.3	1202.6	1202.7	1201.7	1200.6	1199.5	1198.5
152.5°	1220.6	1221.9	1221.9	1220.5	1219.1	1217.7	1216.3
155°	1246.7	1248.0	1247.8	1246.1	1244.4	1242.6	1240.9
157.5°	1268.9	1270.3	1270.2	1268.5	1266.9	1265.2	1263.5
160°	1281.4	1282.7	1282.6	1281.1	1279.6	1278.2	1276.7
162.5°	1293.5	1295.1	1294.8	1292.9	1291.1	1289.3	1287.5
165°	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6
167.5°	1320.3	1321.8	1321.6	1319.7	1317.8	1315.9	1313.9
170°	1326.5	1328.0	1327.8	1325.9	1323.9	1322.0	1320.1
172.5°	1331.1	1332.6	1332.4	1330.5	1328.6	1326.7	1324.7
175°	1336.2	1337.7	1337.4	1335.1	1333.0	1330.9	1328.8
177.5°	1336.4	1337.6	1337.5	1335.8	1334.3	1332.8	1331.3
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5

(END OF REPORT)