

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: P331723-840

Luminaire Tested: **SA2XXRDIP-C865D925U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331723-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

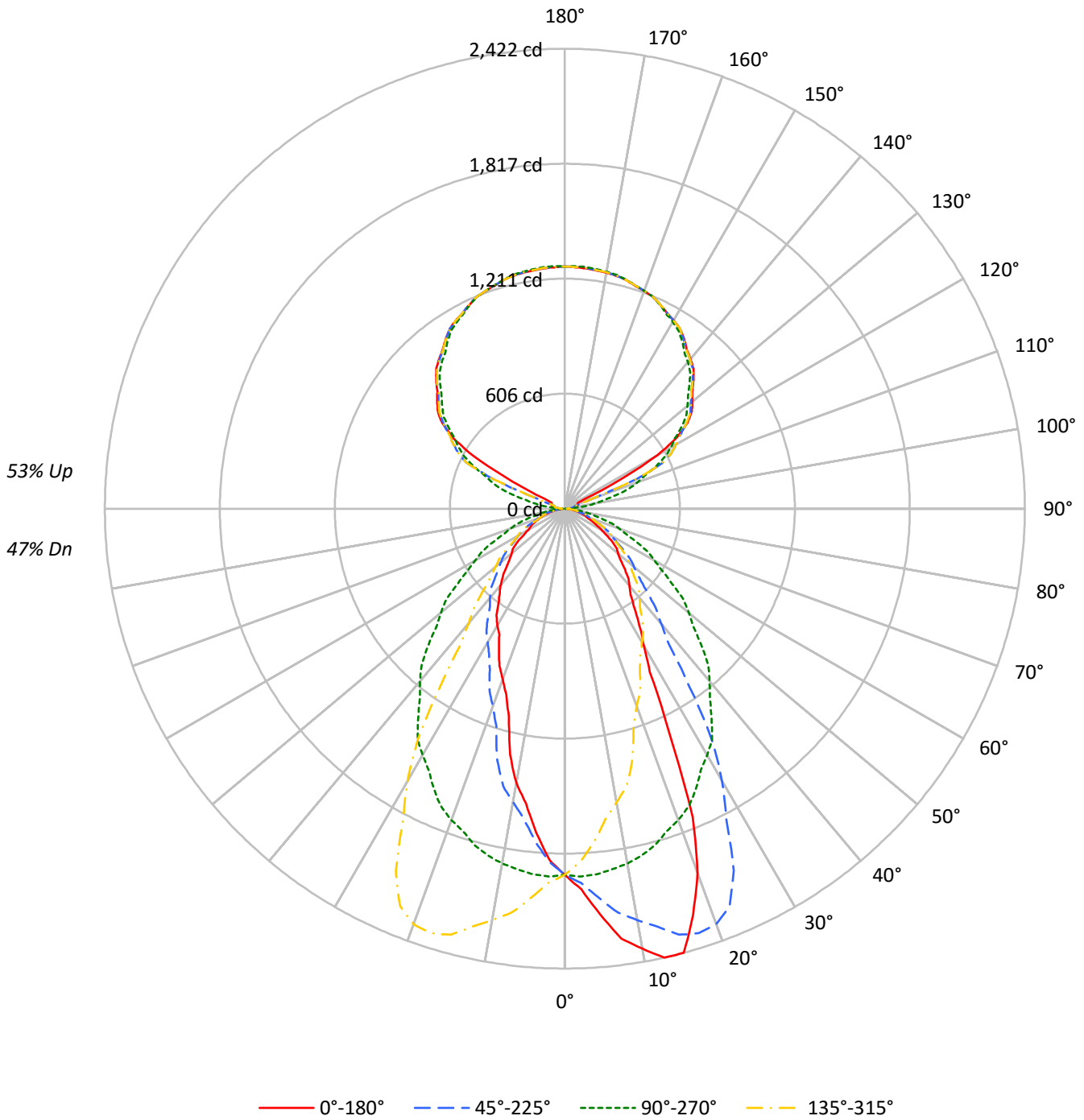
Lumens per Lamp: N/A
Luminaire Lumens: 7071.2 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P331723-840
CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-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	54	54	54	47
1	98	94	90	87	90	86	83	81	73	71	69	60	59	57	48	47	47	41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	44	42	40	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	53	70	61	54	49	52	47	43	43	40	37	36	33	31	28
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	25
6	65	53	46	40	59	50	43	38	43	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	23	20
8	56	44	37	32	52	41	35	30	36	31	27	30	27	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	26	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31136	31136	31136	31136
5°	34775	31331	27780	31331
10°	38581	31111	24079	31111
15°	40478	30654	18974	30654
20°	35093	29979	16417	29979
25°	23013	29054	14658	29054
30°	15491	27932	13267	27932
35°	12546	26518	11964	26518
40°	11158	24982	11072	24982
45°	10097	23178	9882	23178
50°	9191	21391	9156	21391
55°	8639	19409	8526	19409
60°	7227	17589	7143	17589
65°	6094	15973	6911	15973
70°	5632	14266	6515	14266
75°	5265	12414	6014	12414
80°	4863	10219	5365	10219
85°	4465	8058	4705	8058



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.6
10°-20°	509.4	7.2
20°-30°	656.4	9.3
30°-40°	623.8	8.8
40°-50°	534.4	7.6
50°-60°	406.9	5.8
60°-70°	257.2	3.6
70°-80°	128.5	1.8
80°-90°	36.6	0.5
90°-100°	42.5	0.6
100°-110°	155.9	2.2
110°-120°	416.8	5.9
120°-130°	688.0	9.7
130°-140°	731.7	10.3
140°-150°	680.1	9.6
150°-160°	546.8	7.7
160°-170°	352.3	5.0
170°-180°	121.3	1.7
0°-30°	1348.5	19.1
0°-40°	1972.3	27.9
0°-60°	2913.6	41.2
0°-90°	3335.9	47.2
90°-120°	615.2	8.7
90°-150°	2714.9	38.4
90°-180°	3735.0	52.8
0°-180°	7071.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1928	1928	1928	1928	1928	
5°	2146	1933	1714	1933	2146	212
15°	2422	1834	1135	1834	2422	653
25°	1292	1631	823	1631	1292	613
35°	636	1345	607	1345	636	407
45°	442	1015	433	1015	442	342
55°	307	690	303	690	307	269
65°	160	418	181	418	160	162
75°	84	199	96	199	84	90
85°	24	44	25	44	24	27
90°	25	1	25	1	25	12
95°	40	60	40	60	40	37
105°	70	280	70	280	70	73
115°	76	530	76	530	76	189
125°	789	750	789	750	789	682
135°	958	928	958	928	958	739
145°	1093	1076	1093	1076	1093	683
155°	1186	1185	1186	1185	1186	547
165°	1246	1249	1246	1249	1246	352
175°	1270	1277	1270	1277	1270	121
180°	1275	1275	1275	1275	1275	



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2006.7	2008.3	2009.9	2006.1	2006.1	2003.0	1996.0	1990.6	1975.6	1973.5	1973.5
5°	2145.6	2144.1	2146.9	2138.2	2126.1	2123.4	2110.7	2094.0	2076.5	2057.1	2053.1
7.5°	2283.5	2281.5	2276.1	2274.7	2265.4	2245.2	2224.7	2202.9	2173.9	2145.7	2131.4
10°	2353.2	2375.3	2362.0	2338.4	2343.2	2311.7	2294.9	2266.1	2242.0	2199.8	2190.4
12.5°	2421.9	2430.5	2426.3	2413.0	2407.0	2385.1	2362.5	2337.4	2292.9	2255.0	2222.0
15°	2421.6	2434.3	2437.6	2433.7	2437.0	2435.7	2423.6	2402.8	2364.0	2322.4	2286.2
17.5°	2242.8	2251.7	2273.6	2288.5	2307.2	2346.9	2366.5	2374.1	2368.3	2344.6	2319.2
20°	2042.4	2027.6	2089.2	2120.7	2147.5	2214.5	2272.2	2294.3	2329.8	2329.2	2322.4
22.5°	1758.2	1761.7	1820.2	1857.5	1935.8	2002.8	2068.5	2151.7	2220.4	2265.8	2292.4
25°	1291.8	1317.4	1375.6	1426.5	1513.7	1638.3	1751.5	1882.9	2006.8	2104.7	2197.8
27.5°	970.3	972.1	1018.3	1065.4	1117.1	1219.2	1361.8	1518.6	1695.4	1841.2	2008.9
30°	830.9	826.9	846.3	875.0	919.3	998.4	1105.6	1259.7	1435.9	1655.7	1851.4
32.5°	732.3	732.5	747.1	768.4	805.2	858.5	931.9	1057.1	1223.7	1439.7	1669.1
35°	636.5	635.9	646.6	662.0	677.4	711.6	761.8	827.5	942.1	1143.8	1378.3
37.5°	567.9	570.9	576.1	585.7	602.8	621.8	652.0	696.1	777.7	897.0	1094.1
40°	529.4	530.7	538.1	546.1	556.1	570.9	595.7	631.2	690.8	786.0	930.0
42.5°	493.9	495.3	500.5	508.1	515.9	530.7	551.2	581.9	630.3	704.5	823.3
45°	442.2	442.2	447.0	450.3	459.0	472.4	489.2	514.6	548.1	603.1	682.2
47.5°	393.7	393.8	397.0	402.7	408.2	418.7	435.2	456.0	480.3	522.8	590.4
50°	365.9	366.5	368.5	373.2	376.6	386.0	398.7	416.8	442.2	475.0	531.4
52.5°	343.4	343.0	345.5	347.5	349.8	356.5	366.0	381.9	404.8	433.2	479.9
55°	306.9	304.2	308.2	311.5	313.6	316.3	321.6	331.6	351.1	375.3	410.1
57.5°	261.4	260.2	263.1	266.1	272.5	279.6	284.3	290.6	300.7	318.0	352.5
60°	223.8	223.8	229.8	231.9	239.2	248.6	258.0	263.4	273.4	284.8	310.2
62.5°	190.6	191.1	193.9	195.9	200.1	211.6	224.7	236.5	246.0	256.9	273.8
65°	159.5	160.8	160.8	162.2	164.8	167.5	172.9	182.3	199.0	214.4	227.1
67.5°	135.3	135.7	136.1	137.5	138.1	141.1	143.3	147.4	151.3	165.9	181.7
70°	119.3	121.3	120.6	122.0	122.6	123.9	126.6	128.7	134.7	138.0	147.4
72.5°	104.2	105.7	105.6	106.4	108.2	108.5	110.6	112.6	116.4	119.3	124.3
75°	84.4	83.7	84.4	85.7	86.4	87.2	87.2	89.8	91.8	94.5	97.9
77.5°	65.1	65.8	65.6	65.8	65.9	67.2	67.1	68.2	70.2	71.6	73.2
80°	52.3	52.9	52.3	52.9	53.6	54.2	53.6	54.2	56.2	57.7	57.7
82.5°	40.5	40.6	41.0	41.1	41.3	41.4	42.3	42.5	43.9	43.7	44.2
85°	24.1	23.4	23.4	23.4	24.1	24.7	24.1	24.1	24.7	24.7	24.7
87.5°	13.5	14.0	13.9	13.8	13.7	13.6	13.4	13.7	13.0	13.3	12.5
90°	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5	19.5	18.5	16.8
92.5°	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4	21.9	21.4	20.6
95°	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0	37.0	36.0	34.5
97.5°	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8	49.0	48.2	44.8
100°	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8	54.2	52.6	49.1
102.5°	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3	56.1	54.0	83.2
105°	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8	58.5	56.2	112.2
107.5°	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1	76.4	78.8	145.8
110°	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4	140.9	161.4	220.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6	332.3	407.1	421.7
115°	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3	474.1	569.1	563.9
117.5°	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4	607.3	630.3	626.8
120°	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0	678.5	676.0	672.4
122.5°	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6	721.0	719.6	715.6
125°	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2	780.8	779.3	775.5
127.5°	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4	835.3	833.2	830.3
130°	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4	870.1	867.9	865.7
132.5°	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5	904.5	902.5	900.3
135°	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0	952.9	950.9	949.1
137.5°	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1	998.0	996.1	994.0
140°	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3	1027.4	1025.6	1023.4
142.5°	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2	1054.6	1052.9	1050.4
145°	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0	1092.5	1091.1	1087.6
147.5°	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8	1125.7	1124.7	1121.3
150°	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0	1145.8	1144.6	1141.3
152.5°	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5	1164.3	1163.1	1159.9
155°	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4	1189.1	1187.9	1185.5
157.5°	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3	1210.0	1208.6	1206.9
160°	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6	1222.3	1221.1	1219.9
162.5°	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0	1233.6	1232.2	1231.1
165°	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1	1245.5
167.5°	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5	1259.1	1257.7	1257.1
170°	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5	1265.0	1263.5	1263.1
172.5°	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8	1269.4	1268.0	1267.6
175°	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7	1274.2	1272.7	1272.3
177.5°	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2	1275.1	1273.8	1273.7
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1974.5	1970.2	1966.5	1956.8	1952.0	1941.3	1939.6	1939.1	1925.2	1911.8	1908.0
5°	2042.4	2031.6	2015.5	1996.8	1977.3	1957.2	1943.8	1933.1	1906.3	1880.9	1866.1
7.5°	2110.7	2087.6	2059.9	2024.4	1994.8	1961.6	1936.8	1914.7	1876.7	1840.3	1815.7
10°	2161.6	2124.0	2087.2	2038.3	2000.1	1962.6	1927.7	1897.6	1854.7	1806.4	1772.3
12.5°	2193.2	2151.9	2101.1	2053.4	2003.9	1956.1	1909.6	1870.8	1820.4	1770.6	1729.9
15°	2235.9	2191.7	2130.1	2061.7	1998.1	1935.8	1882.2	1833.9	1768.3	1708.6	1659.0
17.5°	2271.0	2210.1	2143.9	2064.9	1991.2	1912.0	1842.9	1781.3	1708.2	1636.3	1577.8
20°	2282.2	2221.9	2145.6	2066.5	1979.3	1886.2	1811.8	1744.8	1666.4	1588.0	1521.1
22.5°	2275.2	2228.4	2143.3	2048.7	1959.5	1862.1	1778.1	1700.3	1613.4	1533.4	1455.6
25°	2228.0	2211.8	2131.4	2028.2	1926.4	1813.2	1716.0	1630.9	1531.8	1446.0	1361.5
27.5°	2117.7	2152.3	2102.5	1992.6	1879.4	1758.0	1648.7	1551.9	1449.0	1352.4	1268.3
30°	2011.6	2091.2	2069.8	1967.9	1841.3	1722.0	1599.4	1498.2	1388.4	1289.2	1206.1
32.5°	1866.2	1997.9	2018.9	1933.7	1802.7	1671.6	1543.2	1442.5	1327.8	1223.2	1142.3
35°	1635.0	1831.9	1922.4	1868.1	1736.8	1595.4	1462.7	1345.4	1230.2	1127.0	1046.6
37.5°	1359.0	1627.3	1778.1	1781.9	1661.3	1514.3	1369.9	1253.4	1135.5	1034.2	947.2
40°	1179.9	1470.8	1667.1	1710.6	1608.8	1450.0	1303.9	1185.3	1070.1	970.9	871.1
42.5°	1019.2	1308.9	1550.2	1626.0	1545.0	1387.3	1240.7	1116.7	1004.7	910.9	808.9
45°	824.2	1077.4	1343.4	1478.8	1433.9	1287.9	1133.1	1015.1	909.9	828.9	731.0
47.5°	695.3	873.7	1131.1	1314.2	1313.4	1180.1	1027.8	914.9	817.3	741.3	662.2
50°	621.8	777.3	995.0	1202.7	1220.1	1108.2	963.5	851.6	760.5	680.8	617.1
52.5°	555.8	684.0	879.8	1078.9	1128.5	1031.6	891.2	787.9	699.4	626.1	571.6
55°	469.7	568.9	717.6	903.9	979.0	910.6	786.0	689.5	617.8	556.1	509.3
57.5°	397.4	471.7	591.1	741.0	828.5	785.5	682.7	604.3	542.9	487.2	450.1
60°	351.7	412.7	513.9	639.2	735.7	705.6	617.8	544.7	492.5	444.2	409.4
62.5°	308.9	361.3	448.0	549.7	638.1	625.7	554.0	492.7	447.0	402.9	373.4
65°	248.6	286.8	354.5	434.2	505.2	511.3	459.7	418.1	377.3	342.4	316.3
67.5°	197.9	222.9	270.5	337.7	390.9	409.9	378.4	346.7	314.3	287.3	264.7
70°	166.8	186.9	221.8	276.1	325.0	345.1	327.0	302.2	274.1	252.0	232.5
72.5°	135.2	154.8	180.5	220.4	262.3	284.0	277.7	259.8	237.0	218.7	200.4
75°	101.9	107.9	125.3	152.1	184.9	203.7	208.4	199.0	180.9	166.8	156.1
77.5°	75.3	79.0	87.3	101.3	122.8	139.5	146.3	145.2	132.8	124.6	114.6
80°	60.3	62.3	66.3	72.4	88.5	105.2	109.9	109.9	101.2	97.9	87.8
82.5°	45.8	47.3	49.7	53.0	60.6	75.1	80.4	81.5	75.9	71.6	63.6
85°	26.2	25.4	26.8	28.8	30.2	34.1	42.2	43.5	42.2	36.9	34.8
87.5°	12.1	12.3	12.0	11.1	11.2	11.3	13.5	15.8	14.0	12.9	12.2
90°	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9	3.1	5.5	7.7
92.5°	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6	18.4	18.2	18.0
95°	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0	53.2	46.5	39.7
97.5°	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0	99.9	80.9	61.8
100°	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3	135.1	107.0	79.0
102.5°	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0	206.0	200.1	194.1
105°	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3	286.5	292.7	298.8
107.5°	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4	363.3	368.3	373.2
110°	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6	412.9	417.2	421.5



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8	459.6	463.4	467.3
115°	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3	533.8	537.2	540.8
117.5°	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9	600.8	604.7	608.6
120°	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6	648.6	651.8	654.8
122.5°	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9	690.1	693.4	696.6
125°	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8	752.5	755.2	757.8
127.5°	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8	809.8	812.7	815.7
130°	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0	846.3	849.5	852.8
132.5°	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9	882.6	885.4	888.3
135°	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9	931.1	934.4	937.7
137.5°	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3	978.7	981.0	983.2
140°	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0	1009.8	1011.4	1013.0
142.5°	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6	1036.1	1037.6	1039.1
145°	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3	1076.1	1075.9	1075.7
147.5°	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7	1111.9	1111.2	1110.3
150°	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3	1134.9	1133.4	1132.0
152.5°	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2	1154.6	1153.0	1151.4
155°	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2	1183.4	1181.4	1179.6
157.5°	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8	1206.3	1204.8	1203.2
160°	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1219.9	1218.7	1217.4
162.5°	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9	1231.7	1230.5	1229.2
165°	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8	1247.6	1246.4	1245.1
167.5°	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6	1259.4	1258.2	1256.9
170°	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3	1266.0	1264.8	1263.5
172.5°	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6	1270.4	1269.2	1268.0
175°	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4	1276.0	1274.6	1273.0
177.5°	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3	1277.2	1276.1	1274.9
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1901.1	1897.3	1890.4	1879.7	1873.2	1862.0	1854.4	1858.8	1859.8	1858.8	1857.6
5°	1850.0	1835.9	1816.5	1797.8	1780.3	1761.6	1750.8	1746.2	1736.8	1731.4	1728.8
7.5°	1788.3	1764.0	1736.5	1703.8	1676.1	1647.0	1632.1	1624.8	1605.6	1595.1	1586.0
10°	1742.1	1703.9	1676.5	1633.6	1607.5	1569.2	1543.2	1543.8	1517.6	1502.9	1492.2
12.5°	1691.2	1649.3	1603.6	1565.0	1528.6	1497.9	1466.5	1453.7	1426.0	1411.8	1382.8
15°	1606.8	1557.9	1509.6	1457.3	1420.5	1372.9	1327.4	1271.7	1226.9	1188.0	1177.3
17.5°	1514.6	1454.0	1405.6	1344.2	1281.1	1201.1	1148.3	1116.0	1088.9	1068.4	1053.2
20°	1451.4	1389.7	1338.1	1245.7	1160.5	1106.3	1067.4	1042.6	1014.5	992.4	980.3
22.5°	1384.8	1320.5	1250.2	1147.0	1080.7	1037.1	1002.5	974.0	954.9	937.7	926.7
25°	1290.5	1220.1	1104.3	1033.2	979.6	934.0	909.9	892.5	872.4	849.0	838.2
27.5°	1190.8	1078.9	995.7	942.9	891.7	862.1	840.4	814.4	796.4	785.9	774.7
30°	1116.3	1004.4	939.4	881.8	845.6	812.7	787.3	772.5	755.2	737.1	729.7
32.5°	1033.2	943.8	881.5	833.5	796.8	768.8	748.7	724.9	712.3	701.1	685.7
35°	930.0	862.3	805.4	766.6	731.7	708.9	685.5	671.4	648.6	639.2	633.2
37.5°	842.6	784.0	741.4	700.4	672.9	647.6	633.3	611.0	601.1	588.0	575.3
40°	793.3	735.7	694.9	661.4	630.6	611.8	593.7	575.6	560.9	554.8	539.4
42.5°	743.0	696.1	655.2	618.4	597.8	577.9	555.1	541.8	526.5	516.7	507.3
45°	673.4	631.9	597.0	566.8	544.1	523.3	508.6	486.5	477.8	458.3	450.3
47.5°	612.3	573.7	540.5	511.8	489.6	476.1	454.4	437.2	423.2	411.3	400.9
50°	568.9	536.7	504.5	479.1	459.0	439.6	417.5	408.7	387.3	381.2	375.3
52.5°	529.2	498.7	469.2	444.2	424.1	405.3	385.8	374.5	359.9	354.0	349.5
55°	473.7	444.2	416.1	393.9	373.9	354.5	342.4	328.3	321.6	316.9	311.5
57.5°	418.0	391.4	369.9	347.5	327.3	311.8	297.9	289.4	282.5	276.3	269.9
60°	382.6	357.1	337.7	316.9	296.2	283.5	272.7	262.7	254.6	245.2	242.6
62.5°	345.1	322.9	305.0	284.8	266.7	255.0	244.8	235.3	225.7	212.0	208.2
65°	293.5	276.1	257.3	240.5	224.5	213.1	198.3	187.6	183.6	182.3	181.6
67.5°	246.8	230.4	214.3	197.1	182.5	172.0	164.4	162.8	160.0	159.2	157.3
70°	215.7	200.4	184.3	168.1	154.1	152.1	149.5	146.7	143.4	142.1	140.7
72.5°	187.8	172.0	155.8	143.0	136.9	134.4	131.7	129.1	126.7	125.4	124.6
75°	144.1	129.4	118.6	113.9	110.6	108.6	104.5	102.5	101.2	99.2	98.5
77.5°	103.7	95.4	90.5	87.6	84.0	81.9	79.6	77.6	76.1	75.7	74.6
80°	79.1	75.0	71.7	67.7	66.3	63.6	63.0	61.0	61.6	59.7	59.7
82.5°	61.4	56.2	53.4	51.6	50.3	48.1	47.5	46.5	46.7	45.1	45.1
85°	31.5	30.2	28.8	27.5	27.5	25.4	26.2	25.4	25.4	24.1	23.4
87.5°	12.2	12.0	11.3	11.6	11.9	11.7	11.9	11.6	11.8	12.0	11.6
90°	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5	21.5	22.5	23.2
92.5°	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4	23.0	23.5	23.9
95°	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0	39.1	40.1	40.5
97.5°	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8	50.6	51.4	51.9
100°	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8	57.5	59.2	60.2
102.5°	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3	60.5	62.6	63.9
105°	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8	63.0	65.2	66.9
107.5°	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1	71.9	69.6	68.9
110°	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4	99.9	79.4	69.6



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6	182.8	108.1	71.0
115°	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3	284.4	189.5	134.6
117.5°	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4	561.5	538.5	502.7
120°	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0	683.5	685.9	673.3
122.5°	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6	724.0	725.5	723.6
125°	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2	783.7	785.1	786.1
127.5°	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4	839.5	841.6	842.6
130°	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4	874.6	876.9	878.0
132.5°	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5	908.4	910.3	911.1
135°	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0	957.0	959.1	959.9
137.5°	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1	1002.1	1004.1	1004.8
140°	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3	1031.2	1033.0	1033.4
142.5°	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2	1057.9	1059.7	1060.0
145°	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0	1095.4	1096.8	1097.0
147.5°	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8	1127.8	1128.9	1129.0
150°	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0	1148.3	1149.5	1149.6
152.5°	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5	1166.7	1167.9	1167.9
155°	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4	1191.6	1192.9	1192.7
157.5°	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3	1212.7	1214.2	1214.1
160°	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6	1224.9	1226.1	1226.0
162.5°	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0	1236.4	1237.8	1237.6
165°	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7
167.5°	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5	1261.9	1263.4	1263.1
170°	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5	1267.9	1269.3	1269.1
172.5°	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8	1272.3	1273.7	1273.5
175°	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7	1277.1	1278.5	1278.2
177.5°	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2	1277.4	1278.5	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1851.8	1852.8	1851.2	1852.3	1851.2	1852.8	1851.8	1857.6	1858.8	1859.8	1858.8
5°	1725.4	1717.4	1716.0	1714.0	1716.0	1717.4	1725.4	1728.8	1731.4	1736.8	1746.2
7.5°	1574.5	1573.3	1569.9	1565.3	1569.9	1573.3	1574.5	1586.0	1595.1	1605.6	1624.8
10°	1477.4	1474.1	1473.5	1468.7	1473.5	1474.1	1477.4	1492.2	1502.9	1517.6	1543.8
12.5°	1363.8	1342.2	1340.0	1328.3	1340.0	1342.2	1363.8	1382.8	1411.8	1426.0	1453.7
15°	1161.2	1157.2	1143.8	1135.1	1143.8	1157.2	1161.2	1177.3	1188.0	1226.9	1271.7
17.5°	1045.4	1032.3	1028.1	1026.2	1028.1	1032.3	1045.4	1053.2	1068.4	1088.9	1116.0
20°	970.9	958.9	956.8	955.5	956.8	958.9	970.9	980.3	992.4	1014.5	1042.6
22.5°	919.5	906.9	901.6	897.6	901.6	906.9	919.5	926.7	937.7	954.9	974.0
25°	831.5	826.9	824.2	822.8	824.2	826.9	831.5	838.2	849.0	872.4	892.5
27.5°	762.8	752.5	750.4	747.0	750.4	752.5	762.8	774.7	785.9	796.4	814.4
30°	723.7	720.3	715.6	711.6	715.6	720.3	723.7	729.7	737.1	755.2	772.5
32.5°	677.5	674.8	670.6	668.7	670.6	674.8	677.5	685.7	701.1	712.3	724.9
35°	626.5	617.1	613.1	607.0	613.1	617.1	626.5	633.2	639.2	648.6	671.4
37.5°	572.5	567.5	561.9	563.9	561.9	567.5	572.5	575.3	588.0	601.1	611.0
40°	530.7	527.4	526.0	525.3	526.0	527.4	530.7	539.4	554.8	560.9	575.6
42.5°	497.5	488.2	484.7	484.5	484.7	488.2	497.5	507.3	516.7	526.5	541.8
45°	447.0	438.2	432.2	432.8	432.2	438.2	447.0	450.3	458.3	477.8	486.5
47.5°	395.2	395.0	391.2	392.4	391.2	395.0	395.2	400.9	411.3	423.2	437.2
50°	370.5	366.5	363.9	364.5	363.9	366.5	370.5	375.3	381.2	387.3	408.7
52.5°	347.0	343.5	341.3	344.2	341.3	343.5	347.0	349.5	354.0	359.9	374.5
55°	308.2	304.2	303.6	302.9	303.6	304.2	308.2	311.5	316.9	321.6	328.3
57.5°	265.0	262.3	258.2	256.5	258.2	262.3	265.0	269.9	276.3	282.5	289.4
60°	233.9	228.5	221.8	221.2	221.8	228.5	233.9	242.6	245.2	254.6	262.7
62.5°	205.4	204.4	203.0	202.9	203.0	204.4	205.4	208.2	212.0	225.7	235.3
65°	180.3	179.6	180.3	180.9	180.3	179.6	180.3	181.6	182.3	183.6	187.6
67.5°	157.0	155.8	154.6	155.2	154.6	155.8	157.0	157.3	159.2	160.0	162.8
70°	139.4	138.7	138.0	138.0	138.0	138.7	139.4	140.7	142.1	143.4	146.7
72.5°	122.2	122.1	121.4	120.9	121.4	122.1	122.2	124.6	125.4	126.7	129.1
75°	97.9	96.4	96.4	96.4	96.4	96.4	97.9	98.5	99.2	101.2	102.5
77.5°	74.5	73.8	73.2	72.6	73.2	73.8	74.5	74.6	75.7	76.1	77.6
80°	59.0	58.3	57.7	57.7	57.7	58.3	59.0	59.7	59.7	61.6	61.0
82.5°	45.0	44.3	44.2	43.7	44.2	44.3	45.0	45.1	45.1	46.7	46.5
85°	24.1	24.7	24.1	25.4	24.1	24.7	24.1	23.4	24.1	25.4	25.4
87.5°	11.7	11.2	11.9	11.4	11.9	11.2	11.7	11.6	12.0	11.8	11.6
90°	23.6	24.0	24.5	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5
92.5°	24.1	24.4	24.6	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4
95°	40.3	40.1	39.9	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0
97.5°	52.2	52.4	52.7	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8
100°	60.6	61.0	61.4	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8
102.5°	64.5	65.0	65.6	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3
105°	67.7	68.5	69.3	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8
107.5°	69.7	70.5	71.3	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1
110°	70.4	71.2	72.0	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.6	72.3	72.9	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6
115°	119.9	105.1	90.4	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3
117.5°	454.2	405.8	357.3	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4
120°	645.6	617.9	590.3	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0
122.5°	718.2	712.8	707.4	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6
125°	786.7	787.3	788.0	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2
127.5°	842.8	842.9	843.0	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4
130°	877.8	877.5	877.3	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4
132.5°	910.9	910.7	910.5	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5
135°	959.5	959.1	958.7	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0
137.5°	1004.1	1003.4	1002.7	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1
140°	1032.4	1031.4	1030.4	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3
142.5°	1058.9	1057.9	1056.9	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2
145°	1096.0	1095.0	1094.0	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0
147.5°	1128.1	1127.3	1126.4	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8
150°	1148.6	1147.5	1146.5	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0
152.5°	1166.5	1165.2	1163.9	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5
155°	1191.0	1189.3	1187.7	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4
157.5°	1212.4	1210.8	1209.2	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3
160°	1224.5	1223.0	1221.6	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6
162.5°	1235.9	1234.1	1232.3	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0
165°	1250.3	1248.9	1247.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9
167.5°	1261.3	1259.5	1257.7	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5
170°	1267.3	1265.4	1263.5	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5
172.5°	1271.6	1269.8	1268.0	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8
175°	1276.2	1274.1	1272.0	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7
177.5°	1276.9	1275.4	1273.8	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840
 CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1854.4	1862.0	1873.2	1879.7	1890.4	1897.3	1901.1	1908.0	1911.8	1925.2	1939.1
5°	1750.8	1761.6	1780.3	1797.8	1816.5	1835.9	1850.0	1866.1	1880.9	1906.3	1933.1
7.5°	1632.1	1647.0	1676.1	1703.8	1736.5	1764.0	1788.3	1815.7	1840.3	1876.7	1914.7
10°	1543.2	1569.2	1607.5	1633.6	1676.5	1703.9	1742.1	1772.3	1806.4	1854.7	1897.6
12.5°	1466.5	1497.9	1528.6	1565.0	1603.6	1649.3	1691.2	1729.9	1770.6	1820.4	1870.8
15°	1327.4	1372.9	1420.5	1457.3	1509.6	1557.9	1606.8	1659.0	1708.6	1768.3	1833.9
17.5°	1148.3	1201.1	1281.1	1344.2	1405.6	1454.0	1514.6	1577.8	1636.3	1708.2	1781.3
20°	1067.4	1106.3	1160.5	1245.7	1338.1	1389.7	1451.4	1521.1	1588.0	1666.4	1744.8
22.5°	1002.5	1037.1	1080.7	1147.0	1250.2	1320.5	1384.8	1455.6	1533.4	1613.4	1700.3
25°	909.9	934.0	979.6	1033.2	1104.3	1220.1	1290.5	1361.5	1446.0	1531.8	1630.9
27.5°	840.4	862.1	891.7	942.9	995.7	1078.9	1190.8	1268.3	1352.4	1449.0	1551.9
30°	787.3	812.7	845.6	881.8	939.4	1004.4	1116.3	1206.1	1289.2	1388.4	1498.2
32.5°	748.7	768.8	796.8	833.5	881.5	943.8	1033.2	1142.3	1223.2	1327.8	1442.5
35°	685.5	708.9	731.7	766.6	805.4	862.3	930.0	1046.6	1127.0	1230.2	1345.4
37.5°	633.3	647.6	672.9	700.4	741.4	784.0	842.6	947.2	1034.2	1135.5	1253.4
40°	593.7	611.8	630.6	661.4	694.9	735.7	793.3	871.1	970.9	1070.1	1185.3
42.5°	555.1	577.9	597.8	618.4	655.2	696.1	743.0	808.9	910.9	1004.7	1116.7
45°	508.6	523.3	544.1	566.8	597.0	631.9	673.4	731.0	828.9	909.9	1015.1
47.5°	454.4	476.1	489.6	511.8	540.5	573.7	612.3	662.2	741.3	817.3	914.9
50°	417.5	439.6	459.0	479.1	504.5	536.7	568.9	617.1	680.8	760.5	851.6
52.5°	385.8	405.3	424.1	444.2	469.2	498.7	529.2	571.6	626.1	699.4	787.9
55°	342.4	354.5	373.9	393.9	416.1	444.2	473.7	509.3	556.1	617.8	689.5
57.5°	297.9	311.8	327.3	347.5	369.9	391.4	418.0	450.1	487.2	542.9	604.3
60°	272.7	283.5	296.2	316.9	337.7	357.1	382.6	409.4	444.2	492.5	544.7
62.5°	244.8	255.0	266.7	284.8	305.0	322.9	345.1	373.4	402.9	447.0	492.7
65°	198.3	213.1	224.5	240.5	257.3	276.1	293.5	316.3	342.4	377.3	418.1
67.5°	164.4	172.0	182.5	197.1	214.3	230.4	246.8	264.7	287.3	314.3	346.7
70°	149.5	152.1	154.1	168.1	184.3	200.4	215.7	232.5	252.0	274.1	302.2
72.5°	131.7	134.4	136.9	143.0	155.8	172.0	187.8	200.4	218.7	237.0	259.8
75°	104.5	108.6	110.6	113.9	118.6	129.4	144.1	156.1	166.8	180.9	199.0
77.5°	79.6	81.9	84.0	87.6	90.5	95.4	103.7	114.6	124.6	132.8	145.2
80°	63.0	63.6	66.3	67.7	71.7	75.0	79.1	87.8	97.9	101.2	109.9
82.5°	47.5	48.1	50.3	51.6	53.4	56.2	61.4	63.6	71.6	75.9	81.5
85°	26.2	25.4	27.5	27.5	28.8	30.2	31.5	34.8	36.9	42.2	43.5
87.5°	11.9	11.7	11.9	11.6	11.3	12.0	12.2	12.2	12.9	14.0	15.8
90°	19.5	18.5	16.8	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9
92.5°	21.9	21.4	20.6	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6
95°	37.0	36.0	34.5	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0
97.5°	49.0	48.2	44.8	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0
100°	54.2	52.6	49.1	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3
102.5°	56.1	54.0	83.2	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0
105°	58.5	56.2	112.2	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3
107.5°	76.4	78.8	145.8	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4
110°	140.9	161.4	220.7	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.3	407.1	421.7	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8
115°	474.1	569.1	563.9	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3
117.5°	607.3	630.3	626.8	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9
120°	678.5	676.0	672.4	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6
122.5°	721.0	719.6	715.6	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9
125°	780.8	779.3	775.5	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8
127.5°	835.3	833.2	830.3	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8
130°	870.1	867.9	865.7	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0
132.5°	904.5	902.5	900.3	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9
135°	952.9	950.9	949.1	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9
137.5°	998.0	996.1	994.0	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3
140°	1027.4	1025.6	1023.4	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0
142.5°	1054.6	1052.9	1050.4	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6
145°	1092.5	1091.1	1087.6	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3
147.5°	1125.7	1124.7	1121.3	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7
150°	1145.8	1144.6	1141.3	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3
152.5°	1164.3	1163.1	1159.9	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2
155°	1189.1	1187.9	1185.5	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2
157.5°	1210.0	1208.6	1206.9	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8
160°	1222.3	1221.1	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1
162.5°	1233.6	1232.2	1231.1	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9
165°	1247.5	1246.1	1245.5	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8
167.5°	1259.1	1257.7	1257.1	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6
170°	1265.0	1263.5	1263.1	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3
172.5°	1269.4	1268.0	1267.6	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6
175°	1274.2	1272.7	1272.3	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4
177.5°	1275.1	1273.8	1273.7	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1939.6	1941.3	1952.0	1956.8	1966.5	1970.2	1974.5	1973.5	1973.5	1975.6	1990.6
5°	1943.8	1957.2	1977.3	1996.8	2015.5	2031.6	2042.4	2053.1	2057.1	2076.5	2094.0
7.5°	1936.8	1961.6	1994.8	2024.4	2059.9	2087.6	2110.7	2131.4	2145.7	2173.9	2202.9
10°	1927.7	1962.6	2000.1	2038.3	2087.2	2124.0	2161.6	2190.4	2199.8	2242.0	2266.1
12.5°	1909.6	1956.1	2003.9	2053.4	2101.1	2151.9	2193.2	2222.0	2255.0	2292.9	2337.4
15°	1882.2	1935.8	1998.1	2061.7	2130.1	2191.7	2235.9	2286.2	2322.4	2364.0	2402.8
17.5°	1842.9	1912.0	1991.2	2064.9	2143.9	2210.1	2271.0	2319.2	2344.6	2368.3	2374.1
20°	1811.8	1886.2	1979.3	2066.5	2145.6	2221.9	2282.2	2322.4	2329.2	2329.8	2294.3
22.5°	1778.1	1862.1	1959.5	2048.7	2143.3	2228.4	2275.2	2292.4	2265.8	2220.4	2151.7
25°	1716.0	1813.2	1926.4	2028.2	2131.4	2211.8	2228.0	2197.8	2104.7	2006.8	1882.9
27.5°	1648.7	1758.0	1879.4	1992.6	2102.5	2152.3	2117.7	2008.9	1841.2	1695.4	1518.6
30°	1599.4	1722.0	1841.3	1967.9	2069.8	2091.2	2011.6	1851.4	1655.7	1435.9	1259.7
32.5°	1543.2	1671.6	1802.7	1933.7	2018.9	1997.9	1866.2	1669.1	1439.7	1223.7	1057.1
35°	1462.7	1595.4	1736.8	1868.1	1922.4	1831.9	1635.0	1378.3	1143.8	942.1	827.5
37.5°	1369.9	1514.3	1661.3	1781.9	1778.1	1627.3	1359.0	1094.1	897.0	777.7	696.1
40°	1303.9	1450.0	1608.8	1710.6	1667.1	1470.8	1179.9	930.0	786.0	690.8	631.2
42.5°	1240.7	1387.3	1545.0	1626.0	1550.2	1308.9	1019.2	823.3	704.5	630.3	581.9
45°	1133.1	1287.9	1433.9	1478.8	1343.4	1077.4	824.2	682.2	603.1	548.1	514.6
47.5°	1027.8	1180.1	1313.4	1314.2	1131.1	873.7	695.3	590.4	522.8	480.3	456.0
50°	963.5	1108.2	1220.1	1202.7	995.0	777.3	621.8	531.4	475.0	442.2	416.8
52.5°	891.2	1031.6	1128.5	1078.9	879.8	684.0	555.8	479.9	433.2	404.8	381.9
55°	786.0	910.6	979.0	903.9	717.6	568.9	469.7	410.1	375.3	351.1	331.6
57.5°	682.7	785.5	828.5	741.0	591.1	471.7	397.4	352.5	318.0	300.7	290.6
60°	617.8	705.6	735.7	639.2	513.9	412.7	351.7	310.2	284.8	273.4	263.4
62.5°	554.0	625.7	638.1	549.7	448.0	361.3	308.9	273.8	256.9	246.0	236.5
65°	459.7	511.3	505.2	434.2	354.5	286.8	248.6	227.1	214.4	199.0	182.3
67.5°	378.4	409.9	390.9	337.7	270.5	222.9	197.9	181.7	165.9	151.3	147.4
70°	327.0	345.1	325.0	276.1	221.8	186.9	166.8	147.4	138.0	134.7	128.7
72.5°	277.7	284.0	262.3	220.4	180.5	154.8	135.2	124.3	119.3	116.4	112.6
75°	208.4	203.7	184.9	152.1	125.3	107.9	101.9	97.9	94.5	91.8	89.8
77.5°	146.3	139.5	122.8	101.3	87.3	79.0	75.3	73.2	71.6	70.2	68.2
80°	109.9	105.2	88.5	72.4	66.3	62.3	60.3	57.7	57.7	56.2	54.2
82.5°	80.4	75.1	60.6	53.0	49.7	47.3	45.8	44.2	43.7	43.9	42.5
85°	42.2	34.1	30.2	28.8	26.8	25.4	26.2	24.7	24.7	24.7	24.1
87.5°	13.5	11.3	11.2	11.1	12.0	12.3	12.1	12.5	13.3	13.0	13.7
90°	3.1	5.5	7.7	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5
92.5°	18.4	18.2	18.0	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4
95°	53.2	46.5	39.7	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0
97.5°	99.9	80.9	61.8	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8
100°	135.1	107.0	79.0	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8
102.5°	206.0	200.1	194.1	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3
105°	286.5	292.7	298.8	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8
107.5°	363.3	368.3	373.2	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1
110°	412.9	417.2	421.5	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.6	463.4	467.3	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6
115°	533.8	537.2	540.8	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3
117.5°	600.8	604.7	608.6	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4
120°	648.6	651.8	654.8	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0
122.5°	690.1	693.4	696.6	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6
125°	752.5	755.2	757.8	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2
127.5°	809.8	812.7	815.7	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4
130°	846.3	849.5	852.8	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4
132.5°	882.6	885.4	888.3	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5
135°	931.1	934.4	937.7	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0
137.5°	978.7	981.0	983.2	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1
140°	1009.8	1011.4	1013.0	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3
142.5°	1036.1	1037.6	1039.1	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2
145°	1076.1	1075.9	1075.7	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0
147.5°	1111.9	1111.2	1110.3	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8
150°	1134.9	1133.4	1132.0	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0
152.5°	1154.6	1153.0	1151.4	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5
155°	1183.4	1181.4	1179.6	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4
157.5°	1206.3	1204.8	1203.2	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3
160°	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6
162.5°	1231.7	1230.5	1229.2	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0
165°	1247.6	1246.4	1245.1	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9
167.5°	1259.4	1258.2	1256.9	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5
170°	1266.0	1264.8	1263.5	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5
172.5°	1270.4	1269.2	1268.0	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8
175°	1276.0	1274.6	1273.0	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7
177.5°	1277.2	1276.1	1274.9	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1996.0	2003.0	2006.1	2006.1	2009.9	2008.3	2006.7
5°	2110.7	2123.4	2126.1	2138.2	2146.9	2144.1	2145.6
7.5°	2224.7	2245.2	2265.4	2274.7	2276.1	2281.5	2283.5
10°	2294.9	2311.7	2343.2	2338.4	2362.0	2375.3	2353.2
12.5°	2362.5	2385.1	2407.0	2413.0	2426.3	2430.5	2421.9
15°	2423.6	2435.7	2437.0	2433.7	2437.6	2434.3	2421.6
17.5°	2366.5	2346.9	2307.2	2288.5	2273.6	2251.7	2242.8
20°	2272.2	2214.5	2147.5	2120.7	2089.2	2027.6	2042.4
22.5°	2068.5	2002.8	1935.8	1857.5	1820.2	1761.7	1758.2
25°	1751.5	1638.3	1513.7	1426.5	1375.6	1317.4	1291.8
27.5°	1361.8	1219.2	1117.1	1065.4	1018.3	972.1	970.3
30°	1105.6	998.4	919.3	875.0	846.3	826.9	830.9
32.5°	931.9	858.5	805.2	768.4	747.1	732.5	732.3
35°	761.8	711.6	677.4	662.0	646.6	635.9	636.5
37.5°	652.0	621.8	602.8	585.7	576.1	570.9	567.9
40°	595.7	570.9	556.1	546.1	538.1	530.7	529.4
42.5°	551.2	530.7	515.9	508.1	500.5	495.3	493.9
45°	489.2	472.4	459.0	450.3	447.0	442.2	442.2
47.5°	435.2	418.7	408.2	402.7	397.0	393.8	393.7
50°	398.7	386.0	376.6	373.2	368.5	366.5	365.9
52.5°	366.0	356.5	349.8	347.5	345.5	343.0	343.4
55°	321.6	316.3	313.6	311.5	308.2	304.2	306.9
57.5°	284.3	279.6	272.5	266.1	263.1	260.2	261.4
60°	258.0	248.6	239.2	231.9	229.8	223.8	223.8
62.5°	224.7	211.6	200.1	195.9	193.9	191.1	190.6
65°	172.9	167.5	164.8	162.2	160.8	160.8	159.5
67.5°	143.3	141.1	138.1	137.5	136.1	135.7	135.3
70°	126.6	123.9	122.6	122.0	120.6	121.3	119.3
72.5°	110.6	108.5	108.2	106.4	105.6	105.7	104.2
75°	87.2	87.2	86.4	85.7	84.4	83.7	84.4
77.5°	67.1	67.2	65.9	65.8	65.6	65.8	65.1
80°	53.6	54.2	53.6	52.9	52.3	52.9	52.3
82.5°	42.3	41.4	41.3	41.1	41.0	40.6	40.5
85°	24.1	24.7	24.1	23.4	23.4	23.4	24.1
87.5°	13.4	13.6	13.7	13.8	13.9	14.0	13.5
90°	21.5	22.5	23.2	23.6	24.0	24.5	24.9
92.5°	23.0	23.5	23.9	24.1	24.4	24.6	24.9
95°	39.1	40.1	40.5	40.3	40.1	39.9	39.7
97.5°	50.6	51.4	51.9	52.2	52.4	52.7	52.9
100°	57.5	59.2	60.2	60.6	61.0	61.4	61.8
102.5°	60.5	62.6	63.9	64.5	65.0	65.6	66.2
105°	63.0	65.2	66.9	67.7	68.5	69.3	70.1
107.5°	71.9	69.6	68.9	69.7	70.5	71.3	72.1
110°	99.9	79.4	69.6	70.4	71.2	72.0	72.9



TEST NUMBER: P331723-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.8	108.1	71.0	71.6	72.3	72.9	73.6
115°	284.4	189.5	134.6	119.9	105.1	90.4	75.6
117.5°	561.5	538.5	502.7	454.2	405.8	357.3	308.8
120°	683.5	685.9	673.3	645.6	617.9	590.3	562.6
122.5°	724.0	725.5	723.6	718.2	712.8	707.4	702.1
125°	783.7	785.1	786.1	786.7	787.3	788.0	788.6
127.5°	839.5	841.6	842.6	842.8	842.9	843.0	843.1
130°	874.6	876.9	878.0	877.8	877.5	877.3	877.1
132.5°	908.4	910.3	911.1	910.9	910.7	910.5	910.3
135°	957.0	959.1	959.9	959.5	959.1	958.7	958.3
137.5°	1002.1	1004.1	1004.8	1004.1	1003.4	1002.7	1002.0
140°	1031.2	1033.0	1033.4	1032.4	1031.4	1030.4	1029.3
142.5°	1057.9	1059.7	1060.0	1058.9	1057.9	1056.9	1055.8
145°	1095.4	1096.8	1097.0	1096.0	1095.0	1094.0	1093.0
147.5°	1127.8	1128.9	1129.0	1128.1	1127.3	1126.4	1125.6
150°	1148.3	1149.5	1149.6	1148.6	1147.5	1146.5	1145.5
152.5°	1166.7	1167.9	1167.9	1166.5	1165.2	1163.9	1162.5
155°	1191.6	1192.9	1192.7	1191.0	1189.3	1187.7	1186.1
157.5°	1212.7	1214.2	1214.1	1212.4	1210.8	1209.2	1207.7
160°	1224.9	1226.1	1226.0	1224.5	1223.0	1221.6	1220.2
162.5°	1236.4	1237.8	1237.6	1235.9	1234.1	1232.3	1230.5
165°	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1
167.5°	1261.9	1263.4	1263.1	1261.3	1259.5	1257.7	1255.8
170°	1267.9	1269.3	1269.1	1267.3	1265.4	1263.5	1261.7
172.5°	1272.3	1273.7	1273.5	1271.6	1269.8	1268.0	1266.2
175°	1277.1	1278.5	1278.2	1276.2	1274.1	1272.0	1270.0
177.5°	1277.4	1278.5	1278.3	1276.9	1275.4	1273.8	1272.4
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7

(END OF REPORT)