

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: P332853-930

Luminaire Tested: **S124DIW-S1195D1340U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332853-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1340U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8713.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

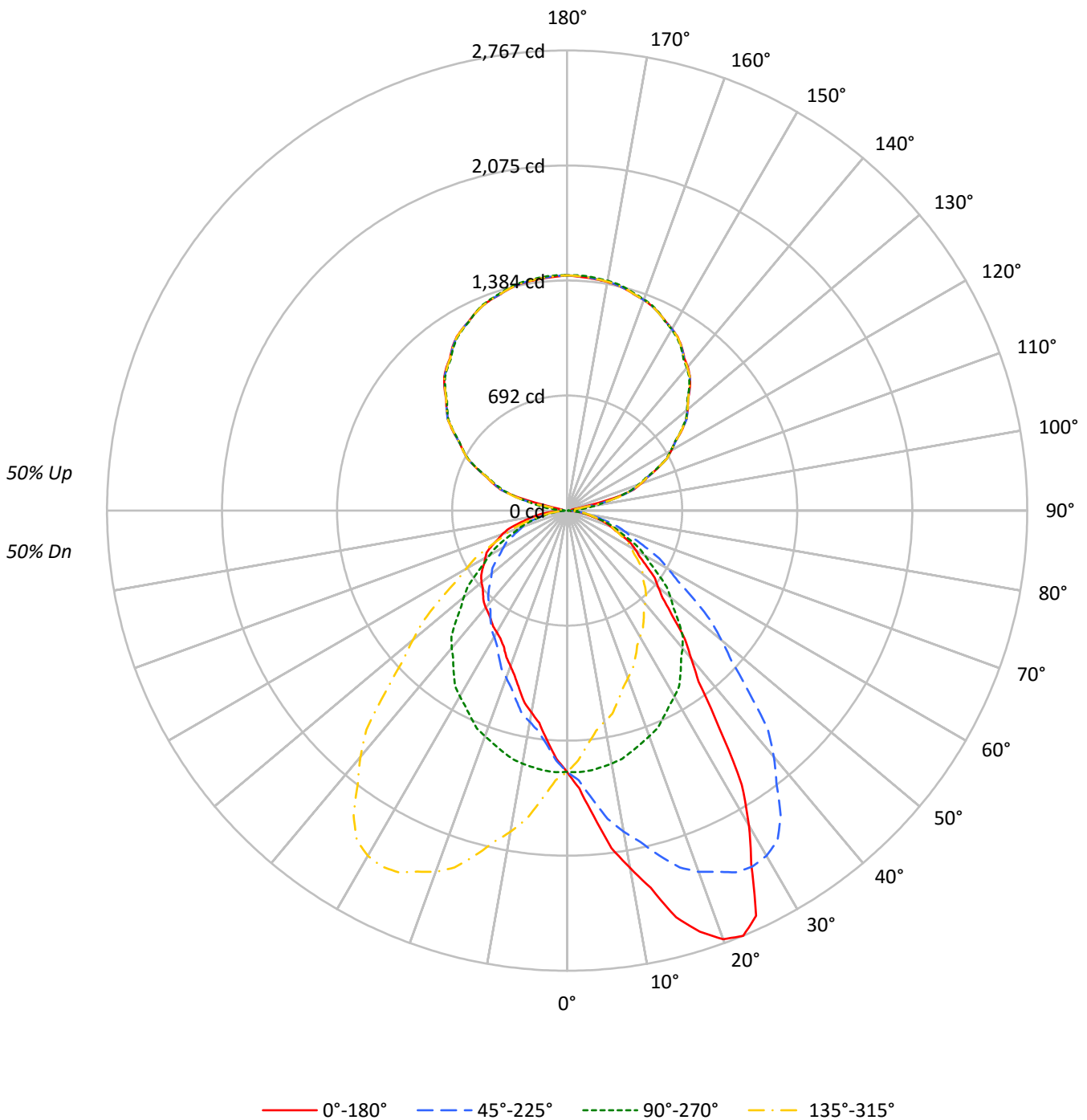
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332853-930

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42																												
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36																												
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31																												
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26																												
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23																												
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20																												
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18																												
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16																												
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	22	19	17	15																												
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12686	12686	12686	12686
5°	14939	12719	11225	12719
10°	17887	12663	10107	12663
15°	21163	12534	9281	12534
20°	23566	12404	8546	12404
25°	23947	12211	8036	12211
30°	20377	12027	7876	12027
35°	15666	11727	7877	11727
40°	12211	11374	8026	11374
45°	10182	10843	8161	10843
50°	8961	10194	8437	10194
55°	8210	9419	8777	9419
60°	7694	8724	9185	8724
65°	7163	7947	9524	7947
70°	6545	7176	9741	7176
75°	5845	6313	9623	6313
80°	4900	5174	9321	5174
85°	3622	3742	8929	3742



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.8
10°-20°	471.9	5.4
20°-30°	748.2	8.6
30°-40°	832.7	9.6
40°-50°	758.0	8.7
50°-60°	619.4	7.1
60°-70°	442.2	5.1
70°-80°	243.5	2.8
80°-90°	70.6	0.8
90°-100°	48.4	0.6
100°-110°	308.3	3.5
110°-120°	589.8	6.8
120°-130°	748.7	8.6
130°-140°	801.1	9.2
140°-150°	749.1	8.6
150°-160°	604.1	6.9
160°-170°	389.6	4.5
170°-180°	134.3	1.5
0°-30°	1373.2	15.8
0°-40°	2205.9	25.3
0°-60°	3583.3	41.1
0°-90°	4339.6	49.8
90°-120°	946.5	10.9
90°-150°	3245.5	37.2
90°-180°	4374.0	50.2
0°-180°	8713.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1844	1570	1385	1570	1844	187
15°	2532	1500	1110	1500	2532	715
25°	2688	1371	902	1371	2688	1185
35°	1590	1190	799	1190	1590	1009
45°	892	950	715	950	892	703
55°	583	669	624	669	583	527
65°	375	416	499	416	375	371
75°	187	202	308	202	187	199
85°	39	40	96	40	39	48
90°	32	3	32	3	32	15
95°	31	58	31	58	31	24
105°	301	318	301	318	301	263
115°	598	594	598	594	598	592
125°	842	835	842	835	842	750
135°	1044	1036	1044	1036	1044	803
145°	1201	1195	1201	1195	1201	751
155°	1309	1310	1309	1310	1309	604
165°	1376	1382	1376	1382	1376	389
175°	1405	1414	1405	1414	1405	134
180°	1414	1414	1414	1414	1414	



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1672.4	1671.9	1666.7	1665.7	1662.0	1657.3	1656.3	1648.0	1631.3	1623.4	1621.4
5°	1843.5	1856.5	1839.6	1836.3	1834.3	1812.9	1801.8	1788.8	1758.8	1741.3	1727.6
7.5°	2047.6	2049.2	2041.8	2035.8	2019.3	2000.5	1972.4	1942.5	1906.7	1869.6	1841.7
10°	2182.0	2187.2	2178.7	2177.4	2144.2	2123.4	2081.7	2046.6	2006.2	1961.3	1920.3
12.5°	2323.6	2316.3	2312.0	2284.1	2278.0	2240.0	2191.6	2155.4	2093.2	2041.5	1987.0
15°	2532.2	2517.9	2508.8	2470.4	2451.4	2398.7	2347.3	2307.6	2226.3	2148.8	2090.2
17.5°	2654.5	2668.9	2647.8	2632.0	2583.2	2546.3	2493.7	2410.4	2346.7	2250.5	2176.5
20°	2743.1	2744.4	2732.6	2716.4	2678.0	2631.1	2573.8	2482.7	2406.5	2310.9	2209.3
22.5°	2767.0	2767.3	2762.3	2747.2	2718.0	2680.1	2622.2	2546.3	2454.0	2349.9	2248.4
25°	2688.4	2685.8	2691.6	2708.6	2697.5	2685.8	2652.6	2596.0	2510.1	2400.0	2290.7
27.5°	2396.2	2414.2	2447.3	2488.9	2529.1	2559.6	2568.3	2556.6	2503.4	2413.0	2298.3
30°	2185.9	2208.0	2232.8	2274.4	2355.2	2401.3	2452.1	2490.5	2469.1	2396.8	2290.0
32.5°	1954.7	1960.1	1996.8	2044.2	2118.1	2207.1	2287.6	2365.5	2391.4	2353.5	2264.5
35°	1589.6	1598.7	1638.4	1685.3	1775.8	1884.5	2005.6	2113.6	2202.8	2238.6	2193.0
37.5°	1297.2	1323.4	1351.4	1401.7	1481.4	1579.3	1705.1	1844.9	1977.8	2066.9	2081.9
40°	1158.7	1174.9	1195.1	1233.5	1301.2	1397.6	1505.6	1665.7	1807.0	1934.6	1976.3
42.5°	1049.3	1058.8	1071.2	1106.0	1157.5	1253.4	1352.0	1492.9	1634.7	1787.2	1857.0
45°	891.8	901.6	922.3	942.6	981.6	1048.0	1139.8	1255.6	1398.2	1545.3	1674.2
47.5°	778.0	784.2	796.6	818.2	851.4	895.2	969.9	1066.7	1198.8	1341.6	1479.0
50°	713.5	718.6	728.4	748.0	773.3	812.4	873.6	964.0	1067.6	1211.4	1346.1
52.5°	662.4	664.5	671.6	684.9	705.1	737.9	788.1	863.0	959.2	1087.4	1221.7
55°	583.3	585.9	592.4	602.1	619.7	640.5	678.9	734.9	818.9	930.2	1046.7
57.5°	518.1	520.0	525.5	529.2	543.6	560.6	590.1	630.1	693.7	788.1	892.2
60°	476.5	475.2	481.7	484.9	494.7	509.1	531.8	570.2	625.6	701.7	797.4
62.5°	435.9	434.1	439.5	443.8	449.4	461.6	480.3	510.4	555.2	624.1	706.8
65°	375.0	372.3	375.6	380.8	386.0	392.5	406.2	432.8	468.7	518.1	581.3
67.5°	313.7	316.5	317.0	319.6	322.6	331.5	340.8	359.7	385.0	424.5	478.1
70°	277.3	277.9	280.5	280.5	282.5	290.3	298.2	309.2	333.9	370.4	414.0
72.5°	240.8	243.6	242.6	244.6	246.1	251.3	257.0	267.5	288.6	315.7	352.5
75°	187.4	189.4	189.4	190.0	192.0	194.0	198.5	206.4	221.4	241.5	266.8
77.5°	136.7	137.0	137.9	140.2	140.2	143.3	146.8	153.0	160.4	174.2	189.7
80°	105.4	106.7	106.1	107.4	107.4	110.0	111.3	119.1	122.4	131.5	143.8
82.5°	77.4	78.6	78.5	80.3	81.4	81.9	83.7	86.8	90.1	98.2	103.2
85°	39.1	40.4	39.1	40.4	42.3	43.0	44.9	45.6	48.2	50.1	54.7
87.5°	17.8	19.2	19.2	19.6	20.5	20.9	21.1	20.3	22.1	22.3	24.1
90°	31.7	31.2	30.8	30.3	29.8	28.9	27.5	26.1	24.7	23.2	21.4
92.5°	29.2	29.1	29.0	28.9	28.8	28.0	26.7	25.3	23.8	22.4	20.5
95°	30.7	30.4	30.2	29.9	29.8	28.9	27.5	26.1	24.7	23.2	23.0
97.5°	29.6	29.4	29.1	28.9	28.7	28.5	28.4	28.2	28.0	27.9	54.1
100°	29.6	29.4	29.1	28.9	28.7	30.6	34.6	38.6	42.6	46.6	78.9
102.5°	30.5	30.4	30.3	30.3	30.2	51.8	94.9	138.0	181.1	224.2	228.4
105°	301.4	309.8	318.3	326.8	335.3	338.4	336.3	334.2	332.1	330.0	328.7
107.5°	420.0	419.1	418.2	417.4	416.5	415.5	414.5	413.4	412.4	411.4	409.8
110°	471.7	470.9	470.3	469.5	468.8	468.2	467.7	467.3	466.8	466.4	465.0



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	523.3	522.4	521.5	520.6	519.7	519.3	519.3	519.4	519.6	519.7	519.0
115°	598.5	598.5	598.5	598.5	598.5	598.3	597.9	597.4	596.9	596.4	596.6
117.5°	675.1	675.2	675.3	675.4	675.5	675.6	675.6	675.7	675.9	676.0	675.4
120°	723.3	723.8	724.2	724.7	725.2	725.2	724.7	724.2	723.8	723.3	723.6
122.5°	770.7	771.2	771.6	772.1	772.6	772.7	772.4	772.1	771.8	771.5	771.2
125°	841.8	841.6	841.3	841.1	840.8	840.3	839.7	838.9	838.2	837.6	838.0
127.5°	904.2	904.3	904.5	904.7	904.9	905.1	905.2	905.4	905.5	905.6	904.6
130°	946.5	946.5	946.5	946.5	946.5	946.3	946.1	945.8	945.7	945.4	944.7
132.5°	985.4	985.5	985.8	985.9	986.1	986.1	985.9	985.6	985.4	985.1	984.2
135°	1043.7	1043.3	1042.8	1042.4	1041.9	1041.4	1040.9	1040.5	1040.0	1039.5	1038.6
137.5°	1093.6	1093.8	1094.0	1094.1	1094.2	1094.1	1093.5	1093.0	1092.5	1091.9	1091.0
140°	1128.4	1128.1	1127.9	1127.6	1127.4	1126.9	1126.3	1125.5	1124.8	1124.1	1123.6
142.5°	1157.1	1157.1	1157.0	1157.0	1156.9	1156.7	1156.1	1155.6	1155.1	1154.5	1154.3
145°	1201.3	1200.9	1200.4	1199.9	1199.5	1199.1	1198.8	1198.6	1198.4	1198.2	1198.2
147.5°	1237.9	1237.6	1237.5	1237.2	1237.0	1236.7	1236.6	1236.4	1236.2	1236.0	1236.2
150°	1261.6	1261.3	1261.1	1260.9	1260.6	1260.5	1260.5	1260.5	1260.5	1260.5	1260.8
152.5°	1281.9	1282.1	1282.1	1282.3	1282.5	1282.3	1282.0	1281.6	1281.2	1280.8	1281.2
155°	1309.2	1309.9	1310.6	1311.3	1312.0	1311.9	1310.9	1310.0	1309.0	1308.1	1308.8
157.5°	1332.0	1333.3	1334.5	1335.7	1336.9	1336.9	1335.7	1334.5	1333.3	1332.0	1332.9
160°	1347.3	1348.7	1350.1	1351.4	1352.9	1352.9	1351.4	1350.1	1348.7	1347.3	1347.4
162.5°	1359.1	1360.7	1362.3	1363.9	1365.5	1365.5	1364.2	1362.8	1361.3	1359.9	1360.2
165°	1375.8	1377.9	1380.1	1382.2	1384.2	1384.4	1382.5	1380.6	1378.8	1376.9	1376.9
167.5°	1388.3	1390.7	1392.9	1395.3	1397.7	1397.8	1395.7	1393.7	1391.6	1389.5	1389.7
170°	1395.9	1398.2	1400.6	1403.0	1405.2	1405.5	1403.6	1401.7	1399.9	1398.0	1397.7
172.5°	1400.1	1402.6	1405.2	1407.7	1410.3	1410.6	1408.8	1406.8	1404.9	1403.0	1402.8
175°	1405.4	1408.2	1411.0	1413.9	1416.7	1417.1	1415.0	1412.8	1410.7	1408.6	1408.3
177.5°	1408.8	1411.0	1413.3	1415.5	1417.8	1418.2	1416.7	1415.2	1413.6	1412.2	1411.8
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1621.9	1614.6	1609.4	1605.2	1593.7	1587.0	1581.8	1574.5	1566.2	1557.3	1546.4
5°	1713.9	1691.8	1675.5	1650.8	1627.3	1607.9	1587.6	1569.5	1547.3	1523.2	1505.6
7.5°	1810.7	1777.8	1735.5	1699.0	1657.8	1622.0	1590.0	1557.2	1523.1	1490.0	1459.7
10°	1872.1	1829.8	1782.9	1727.6	1675.5	1629.3	1586.3	1544.7	1504.3	1464.0	1429.5
12.5°	1938.3	1885.5	1816.2	1751.6	1693.2	1631.4	1579.6	1528.5	1479.8	1437.5	1397.2
15°	2027.1	1950.8	1870.8	1784.2	1707.4	1635.2	1564.2	1499.7	1445.1	1389.1	1350.1
17.5°	2081.6	1987.4	1895.8	1805.3	1712.4	1621.2	1544.7	1470.4	1401.9	1346.3	1297.1
20°	2117.5	2023.8	1909.8	1819.4	1708.7	1615.0	1526.5	1443.8	1372.2	1313.0	1262.2
22.5°	2148.8	2040.4	1926.6	1807.4	1697.3	1597.8	1501.0	1417.7	1344.6	1282.2	1233.5
25°	2165.7	2041.3	1917.7	1799.2	1674.2	1556.4	1468.5	1370.9	1292.7	1227.0	1174.9
27.5°	2167.6	2034.6	1894.7	1763.0	1634.0	1524.3	1413.3	1326.1	1245.0	1175.5	1125.5
30°	2161.8	2023.2	1872.7	1730.2	1600.7	1481.6	1385.2	1290.2	1207.5	1138.5	1086.4
32.5°	2143.6	1999.2	1844.6	1693.8	1559.5	1443.0	1343.5	1253.2	1172.6	1104.6	1049.9
35°	2090.8	1948.2	1783.5	1626.7	1489.4	1371.6	1281.7	1189.9	1109.2	1044.8	992.1
37.5°	2008.4	1879.5	1712.1	1549.8	1414.9	1296.6	1207.5	1124.5	1051.8	986.3	932.3
40°	1936.6	1823.3	1655.4	1497.1	1351.4	1238.8	1155.4	1079.3	1007.0	945.2	893.7
42.5°	1853.7	1755.1	1600.2	1432.6	1292.0	1178.8	1097.6	1029.2	961.2	904.0	852.6
45°	1706.1	1641.0	1495.3	1340.3	1193.8	1087.0	1009.6	949.7	892.4	836.5	793.5
47.5°	1536.4	1504.1	1381.3	1234.2	1095.1	989.9	922.8	867.5	817.2	769.8	731.9
50°	1422.3	1406.7	1300.6	1158.7	1025.9	926.9	859.2	811.7	768.7	727.1	691.3
52.5°	1309.9	1309.3	1213.7	1083.7	960.8	865.5	798.3	753.9	716.7	682.8	650.7
55°	1137.8	1156.1	1081.2	965.3	855.3	769.4	708.9	669.2	643.1	615.1	591.1
57.5°	979.9	1010.2	948.4	846.4	754.6	675.4	622.7	592.9	565.2	548.2	530.7
60°	876.9	905.5	857.3	771.4	684.8	617.1	567.0	540.3	516.2	504.5	492.1
62.5°	785.1	810.7	775.0	695.4	620.2	555.1	512.8	487.1	470.9	458.1	450.0
65°	654.2	675.7	645.1	587.2	522.7	470.7	436.1	416.0	400.3	395.1	386.0
67.5°	528.8	548.4	531.8	482.6	430.9	391.5	364.5	345.1	335.9	331.3	324.8
70°	454.4	473.9	456.3	413.4	373.7	340.5	315.0	304.0	294.2	292.3	283.2
72.5°	391.3	404.6	387.0	353.4	319.5	291.5	271.8	260.2	255.2	251.7	246.7
75°	293.6	305.3	293.6	267.5	243.4	224.0	207.0	202.4	196.6	194.6	191.4
77.5°	207.8	217.9	209.0	192.7	174.7	159.6	150.5	144.6	143.3	140.0	141.5
80°	158.8	165.3	156.9	145.8	131.5	121.1	114.5	111.3	107.4	106.1	108.7
82.5°	114.1	116.9	112.6	105.2	94.5	87.7	83.3	79.6	78.8	79.0	79.0
85°	59.3	58.6	58.0	51.4	48.2	43.6	41.0	40.4	39.7	41.0	42.3
87.5°	23.7	23.8	22.9	20.4	18.3	16.2	15.2	14.2	15.2	16.2	17.3
90°	19.5	17.6	15.7	13.5	10.9	8.3	5.8	3.2	5.8	8.3	10.9
92.5°	18.7	16.8	14.9	13.9	13.8	13.6	13.5	13.3	13.5	13.6	13.8
95°	22.8	22.6	22.3	26.2	34.2	42.2	50.1	58.1	50.1	42.2	34.2
97.5°	80.4	106.6	132.8	143.4	138.4	133.5	128.5	123.5	128.5	133.5	138.4
100°	111.4	143.8	176.3	190.4	186.1	181.9	177.7	173.4	177.7	181.9	186.1
102.5°	232.7	236.8	241.1	241.7	238.6	235.5	232.4	229.3	232.4	235.5	238.6
105°	327.6	326.4	325.2	323.9	322.5	321.1	319.7	318.3	319.7	321.1	322.5
107.5°	408.1	406.6	405.0	403.8	403.1	402.4	401.7	401.0	401.7	402.4	403.1
110°	463.5	462.1	460.7	459.7	458.9	458.3	457.5	456.8	457.5	458.3	458.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	518.4	517.7	517.0	516.1	514.8	513.6	512.3	510.9	512.3	513.6	514.8
115°	596.9	597.1	597.4	597.1	596.4	595.7	595.0	594.3	595.0	595.7	596.4
117.5°	674.9	674.4	673.8	673.1	672.2	671.2	670.3	669.4	670.3	671.2	672.2
120°	723.8	724.1	724.2	723.9	723.0	722.0	721.1	720.2	721.1	722.0	723.0
122.5°	770.9	770.5	770.2	769.8	769.2	768.7	768.1	767.5	768.1	768.7	769.2
125°	838.5	838.9	839.4	839.2	838.2	837.3	836.3	835.4	836.3	837.3	838.2
127.5°	903.4	902.4	901.3	900.7	900.4	900.2	899.9	899.7	899.9	900.2	900.4
130°	944.0	943.3	942.6	942.1	941.8	941.7	941.4	941.2	941.4	941.7	941.8
132.5°	983.3	982.5	981.6	980.9	980.5	980.1	979.7	979.3	979.7	980.1	980.5
135°	1037.6	1036.7	1035.8	1035.4	1035.7	1035.8	1036.1	1036.3	1036.1	1035.8	1035.7
137.5°	1089.9	1088.8	1087.9	1087.3	1087.2	1087.0	1087.0	1086.9	1087.0	1087.0	1087.2
140°	1123.2	1122.7	1122.3	1121.8	1121.3	1120.8	1120.4	1119.9	1120.4	1120.8	1121.3
142.5°	1154.0	1153.7	1153.4	1152.9	1152.0	1151.2	1150.3	1149.5	1150.3	1151.2	1152.0
145°	1198.2	1198.2	1198.2	1197.8	1197.1	1196.4	1195.6	1195.0	1195.6	1196.4	1197.1
147.5°	1236.5	1236.7	1237.0	1236.4	1235.1	1233.8	1232.4	1231.1	1232.4	1233.8	1235.1
150°	1261.0	1261.3	1261.4	1261.1	1260.2	1259.2	1258.3	1257.4	1258.3	1259.2	1260.2
152.5°	1281.7	1282.1	1282.5	1282.4	1281.6	1280.8	1280.1	1279.4	1280.1	1280.8	1281.6
155°	1309.5	1310.3	1310.9	1311.2	1310.9	1310.7	1310.4	1310.3	1310.4	1310.7	1310.9
157.5°	1333.6	1334.4	1335.2	1335.7	1335.8	1335.9	1336.1	1336.3	1336.1	1335.9	1335.8
160°	1347.7	1347.9	1348.2	1348.7	1349.3	1350.1	1350.8	1351.4	1350.8	1350.1	1349.3
162.5°	1360.4	1360.7	1360.9	1361.5	1362.4	1363.3	1364.1	1365.0	1364.1	1363.3	1362.4
165°	1376.9	1376.9	1376.9	1377.4	1378.6	1379.8	1381.0	1382.2	1381.0	1379.8	1378.6
167.5°	1389.8	1390.0	1390.1	1390.8	1392.0	1393.3	1394.5	1395.7	1394.5	1393.3	1392.0
170°	1397.5	1397.3	1397.1	1397.7	1399.1	1400.4	1401.9	1403.3	1401.9	1400.4	1399.1
172.5°	1402.6	1402.4	1402.2	1402.7	1404.1	1405.6	1407.0	1408.3	1407.0	1405.6	1404.1
175°	1408.1	1407.9	1407.6	1408.2	1409.7	1411.0	1412.4	1413.9	1412.4	1411.0	1409.7
177.5°	1411.4	1411.0	1410.6	1411.1	1412.4	1413.7	1415.1	1416.4	1415.1	1413.7	1412.4
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1541.2	1536.5	1529.7	1520.4	1512.5	1504.2	1502.1	1499.0	1505.2	1500.1	1498.4
5°	1490.7	1477.0	1459.4	1439.2	1427.5	1410.6	1407.4	1400.8	1394.3	1393.7	1387.2
7.5°	1437.1	1417.1	1394.1	1373.5	1354.5	1336.0	1323.9	1321.3	1311.7	1306.0	1299.5
10°	1402.8	1378.0	1351.4	1331.9	1309.7	1290.2	1276.5	1268.7	1262.2	1255.0	1248.5
12.5°	1362.2	1335.9	1313.9	1292.7	1266.5	1251.6	1229.1	1215.6	1214.3	1214.4	1197.5
15°	1314.9	1288.9	1255.0	1225.1	1210.7	1182.1	1169.7	1154.1	1144.4	1134.6	1126.8
17.5°	1260.9	1228.5	1202.0	1167.7	1140.4	1117.5	1101.3	1091.9	1077.2	1063.4	1053.4
20°	1227.0	1192.5	1164.6	1128.0	1098.1	1070.2	1056.5	1043.5	1032.4	1020.7	1009.6
22.5°	1192.6	1156.6	1122.3	1087.0	1059.1	1029.6	1016.4	998.7	988.1	981.6	970.5
25°	1138.5	1099.4	1060.4	1026.5	997.9	971.8	954.3	940.6	928.9	923.7	916.6
27.5°	1079.6	1040.9	1003.1	964.7	932.1	913.3	899.2	888.9	882.2	875.2	872.0
30°	1042.2	1001.8	961.5	925.6	895.7	876.9	863.8	856.6	851.4	848.2	844.9
32.5°	1004.1	964.3	921.9	889.2	862.3	845.5	835.7	828.5	825.9	824.8	823.6
35°	943.2	902.9	863.8	834.5	809.1	802.6	794.2	790.3	789.0	793.5	795.5
37.5°	884.3	846.8	810.8	782.4	765.8	756.3	753.4	753.5	758.2	762.2	767.0
40°	846.2	809.8	775.9	751.2	735.6	729.7	728.4	731.6	736.9	741.4	746.7
42.5°	809.3	773.3	742.6	719.4	708.5	703.1	703.9	707.2	714.4	720.1	727.9
45°	751.9	721.9	691.9	673.1	664.0	665.3	665.3	671.2	678.2	686.7	695.2
47.5°	697.8	667.6	643.0	627.1	622.4	621.3	624.9	632.6	642.9	653.3	665.1
50°	661.4	632.8	611.2	596.9	591.7	593.7	598.8	606.0	618.4	631.4	643.8
52.5°	624.4	598.3	578.5	565.2	561.5	565.0	570.2	581.6	592.4	606.4	621.4
55°	567.0	544.9	529.2	519.4	518.1	520.1	525.9	538.3	553.9	571.5	585.9
57.5°	509.8	491.3	477.0	470.3	470.9	472.7	482.3	497.1	513.7	532.5	551.0
60°	471.2	454.4	442.6	437.4	438.1	442.0	453.7	467.4	488.2	506.5	525.9
62.5°	434.8	420.0	408.8	404.1	403.2	411.8	423.0	437.2	458.0	478.3	499.4
65°	376.3	364.5	355.4	352.8	354.7	361.3	375.6	394.4	412.1	433.5	455.7
67.5°	318.9	309.3	303.0	304.3	306.6	316.3	328.2	344.5	364.4	386.7	408.5
70°	282.5	273.4	268.2	268.8	272.7	284.5	294.9	311.1	332.6	355.4	373.7
72.5°	245.0	239.0	234.3	237.1	241.0	249.1	262.0	278.3	297.3	318.5	337.7
75°	188.1	188.1	185.5	187.4	193.3	201.1	210.9	227.8	246.7	263.7	279.2
77.5°	139.6	138.1	139.8	142.2	145.5	154.8	166.0	178.1	192.3	209.2	222.1
80°	106.7	107.4	110.6	114.5	115.9	123.0	134.8	145.8	156.9	171.2	183.6
82.5°	80.2	80.9	82.5	87.5	88.8	96.4	104.0	115.1	125.1	134.8	145.0
85°	43.6	43.6	46.9	48.8	52.1	57.3	61.8	68.3	77.5	84.0	93.8
87.5°	19.4	19.8	22.3	23.7	25.6	28.6	29.9	36.0	38.3	41.2	46.1
90°	13.5	15.7	17.6	19.5	21.4	23.2	24.7	26.1	27.5	28.9	29.8
92.5°	13.9	14.9	16.8	18.7	20.5	22.4	23.8	25.3	26.7	28.0	28.8
95°	26.2	22.3	22.6	22.8	23.0	23.2	24.7	26.1	27.5	28.9	29.8
97.5°	143.4	132.8	106.6	80.4	54.1	27.9	28.0	28.2	28.4	28.5	28.7
100°	190.4	176.3	143.8	111.4	78.9	46.6	42.6	38.6	34.6	30.6	28.7
102.5°	241.7	241.1	236.8	232.7	228.4	224.2	181.1	138.0	94.9	51.8	30.2
105°	323.9	325.2	326.4	327.6	328.7	330.0	332.1	334.2	336.3	338.4	335.3
107.5°	403.8	405.0	406.6	408.1	409.8	411.4	412.4	413.4	414.5	415.5	416.5
110°	459.7	460.7	462.1	463.5	465.0	466.4	466.8	467.3	467.7	468.2	468.8



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	516.1	517.0	517.7	518.4	519.0	519.7	519.6	519.4	519.3	519.3	519.7
115°	597.1	597.4	597.1	596.9	596.6	596.4	596.9	597.4	597.9	598.3	598.5
117.5°	673.1	673.8	674.4	674.9	675.4	676.0	675.9	675.7	675.6	675.6	675.5
120°	723.9	724.2	724.1	723.8	723.6	723.3	723.8	724.2	724.7	725.2	725.2
122.5°	769.8	770.2	770.5	770.9	771.2	771.5	771.8	772.1	772.4	772.7	772.6
125°	839.2	839.4	838.9	838.5	838.0	837.6	838.2	838.9	839.7	840.3	840.8
127.5°	900.7	901.3	902.4	903.4	904.6	905.6	905.5	905.4	905.2	905.1	904.9
130°	942.1	942.6	943.3	944.0	944.7	945.4	945.7	945.8	946.1	946.3	946.5
132.5°	980.9	981.6	982.5	983.3	984.2	985.1	985.4	985.6	985.9	986.1	986.1
135°	1035.4	1035.8	1036.7	1037.6	1038.6	1039.5	1040.0	1040.5	1040.9	1041.4	1041.9
137.5°	1087.3	1087.9	1088.8	1089.9	1091.0	1091.9	1092.5	1093.0	1093.5	1094.1	1094.2
140°	1121.8	1122.3	1122.7	1123.2	1123.6	1124.1	1124.8	1125.5	1126.3	1126.9	1127.4
142.5°	1152.9	1153.4	1153.7	1154.0	1154.3	1154.5	1155.1	1155.6	1156.1	1156.7	1156.9
145°	1197.8	1198.2	1198.2	1198.2	1198.2	1198.2	1198.4	1198.6	1198.8	1199.1	1199.5
147.5°	1236.4	1237.0	1236.7	1236.5	1236.2	1236.0	1236.2	1236.4	1236.6	1236.7	1237.0
150°	1261.1	1261.4	1261.3	1261.0	1260.8	1260.5	1260.5	1260.5	1260.5	1260.5	1260.6
152.5°	1282.4	1282.5	1282.1	1281.7	1281.2	1280.8	1281.2	1281.6	1282.0	1282.3	1282.5
155°	1311.2	1310.9	1310.3	1309.5	1308.8	1308.1	1309.0	1310.0	1310.9	1311.9	1312.0
157.5°	1335.7	1335.2	1334.4	1333.6	1332.9	1332.0	1333.3	1334.5	1335.7	1336.9	1336.9
160°	1348.7	1348.2	1347.9	1347.7	1347.4	1347.3	1348.7	1350.1	1351.4	1352.9	1352.9
162.5°	1361.5	1360.9	1360.7	1360.4	1360.2	1359.9	1361.3	1362.8	1364.2	1365.5	1365.5
165°	1377.4	1376.9	1376.9	1376.9	1376.9	1376.9	1378.8	1380.6	1382.5	1384.4	1384.2
167.5°	1390.8	1390.1	1390.0	1389.8	1389.7	1389.5	1391.6	1393.7	1395.7	1397.8	1397.7
170°	1397.7	1397.1	1397.3	1397.5	1397.7	1398.0	1399.9	1401.7	1403.6	1405.5	1405.2
172.5°	1402.7	1402.2	1402.4	1402.6	1402.8	1403.0	1404.9	1406.8	1408.8	1410.6	1410.3
175°	1408.2	1407.6	1407.9	1408.1	1408.3	1408.6	1410.7	1412.8	1415.0	1417.1	1416.7
177.5°	1411.1	1410.6	1411.0	1411.4	1411.8	1412.2	1413.6	1415.2	1416.7	1418.2	1417.8
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1497.5	1496.4	1492.7	1492.2	1492.7	1496.4	1497.5	1498.4	1500.1	1505.2	1499.0
5°	1383.2	1380.0	1378.0	1385.2	1378.0	1380.0	1383.2	1387.2	1393.7	1394.3	1400.8
7.5°	1297.2	1294.6	1288.9	1287.0	1288.9	1294.6	1297.2	1299.5	1306.0	1311.7	1321.3
10°	1242.0	1239.4	1234.2	1232.9	1234.2	1239.4	1242.0	1248.5	1255.0	1262.2	1268.7
12.5°	1188.9	1183.7	1182.7	1184.0	1182.7	1183.7	1188.9	1197.5	1214.4	1214.3	1215.6
15°	1118.3	1115.7	1108.6	1110.5	1108.6	1115.7	1118.3	1126.8	1134.6	1144.4	1154.1
17.5°	1048.8	1045.7	1037.0	1044.6	1037.0	1045.7	1048.8	1053.4	1063.4	1077.2	1091.9
20°	1005.0	999.9	995.3	994.7	995.3	999.9	1005.0	1009.6	1020.7	1032.4	1043.5
22.5°	963.4	958.7	958.3	954.1	958.3	958.7	963.4	970.5	981.6	988.1	998.7
25°	911.3	906.8	905.5	902.2	905.5	906.8	911.3	916.6	923.7	928.9	940.6
27.5°	871.4	869.1	866.8	867.8	866.8	869.1	871.4	872.0	875.2	882.2	888.9
30°	846.9	846.2	844.9	844.9	844.9	846.2	846.9	844.9	848.2	851.4	856.6
32.5°	826.6	826.5	827.2	827.2	827.2	826.5	826.6	823.6	824.8	825.9	828.5
35°	798.1	800.0	801.3	799.3	801.3	800.0	798.1	795.5	793.5	789.0	790.3
37.5°	772.3	774.2	776.1	778.3	776.1	774.2	772.3	767.0	762.2	758.2	753.5
40°	752.5	757.1	758.3	761.6	758.3	757.1	752.5	746.7	741.4	736.9	731.6
42.5°	733.8	738.8	742.2	742.8	742.2	738.8	733.8	727.9	720.1	714.4	707.2
45°	705.0	710.2	714.8	714.8	714.8	710.2	705.0	695.2	686.7	678.2	671.2
47.5°	675.1	682.7	687.3	688.4	687.3	682.7	675.1	665.1	653.3	642.9	632.6
50°	654.8	664.0	668.5	671.8	668.5	664.0	654.8	643.8	631.4	618.4	606.0
52.5°	635.0	644.2	650.3	652.0	650.3	644.2	635.0	621.4	606.4	592.4	581.6
55°	600.8	613.8	621.0	623.6	621.0	613.8	600.8	585.9	571.5	553.9	538.3
57.5°	568.5	580.5	588.8	590.8	588.8	580.5	568.5	551.0	532.5	513.7	497.1
60°	543.6	556.5	567.0	568.9	567.0	556.5	543.6	525.9	506.5	488.2	467.4
62.5°	518.0	531.6	541.0	546.0	541.0	531.6	518.0	499.4	478.3	458.0	437.2
65°	473.9	487.5	496.7	498.6	496.7	487.5	473.9	455.7	433.5	412.1	394.4
67.5°	425.7	439.4	445.4	449.1	445.4	439.4	425.7	408.5	386.7	364.4	344.5
70°	391.8	402.9	409.4	412.7	409.4	402.9	391.8	373.7	355.4	332.6	311.1
72.5°	353.4	364.9	372.5	373.1	372.5	364.9	353.4	337.7	318.5	297.3	278.3
75°	294.2	304.7	308.5	308.5	308.5	304.7	294.2	279.2	263.7	246.7	227.8
77.5°	232.9	238.2	243.2	244.3	243.2	238.2	232.9	222.1	209.2	192.3	178.1
80°	193.3	196.6	200.5	200.5	200.5	196.6	193.3	183.6	171.2	156.9	145.8
82.5°	152.7	155.5	159.4	158.8	159.4	155.5	152.7	145.0	134.8	125.1	115.1
85°	92.5	98.3	97.7	96.4	97.7	98.3	92.5	93.8	84.0	77.5	68.3
87.5°	47.7	48.3	50.0	51.1	50.0	48.3	47.7	46.1	41.2	38.3	36.0
90°	30.3	30.8	31.2	31.7	31.2	30.8	30.3	29.8	28.9	27.5	26.1
92.5°	28.9	29.0	29.1	29.2	29.1	29.0	28.9	28.8	28.0	26.7	25.3
95°	29.9	30.2	30.4	30.7	30.4	30.2	29.9	29.8	28.9	27.5	26.1
97.5°	28.9	29.1	29.4	29.6	29.4	29.1	28.9	28.7	28.5	28.4	28.2
100°	28.9	29.1	29.4	29.6	29.4	29.1	28.9	28.7	30.6	34.6	38.6
102.5°	30.3	30.3	30.4	30.5	30.4	30.3	30.3	30.2	51.8	94.9	138.0
105°	326.8	318.3	309.8	301.4	309.8	318.3	326.8	335.3	338.4	336.3	334.2
107.5°	417.4	418.2	419.1	420.0	419.1	418.2	417.4	416.5	415.5	414.5	413.4
110°	469.5	470.3	470.9	471.7	470.9	470.3	469.5	468.8	468.2	467.7	467.3



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	520.6	521.5	522.4	523.3	522.4	521.5	520.6	519.7	519.3	519.3	519.4
115°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.3	597.9	597.4
117.5°	675.4	675.3	675.2	675.1	675.2	675.3	675.4	675.5	675.6	675.6	675.7
120°	724.7	724.2	723.8	723.3	723.8	724.2	724.7	725.2	725.2	724.7	724.2
122.5°	772.1	771.6	771.2	770.7	771.2	771.6	772.1	772.6	772.7	772.4	772.1
125°	841.1	841.3	841.6	841.8	841.6	841.3	841.1	840.8	840.3	839.7	838.9
127.5°	904.7	904.5	904.3	904.2	904.3	904.5	904.7	904.9	905.1	905.2	905.4
130°	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.3	946.1	945.8
132.5°	985.9	985.8	985.5	985.4	985.5	985.8	985.9	986.1	986.1	985.9	985.6
135°	1042.4	1042.8	1043.3	1043.7	1043.3	1042.8	1042.4	1041.9	1041.4	1040.9	1040.5
137.5°	1094.1	1094.0	1093.8	1093.6	1093.8	1094.0	1094.1	1094.2	1094.1	1093.5	1093.0
140°	1127.6	1127.9	1128.1	1128.4	1128.1	1127.9	1127.6	1127.4	1126.9	1126.3	1125.5
142.5°	1157.0	1157.0	1157.1	1157.1	1157.1	1157.0	1157.0	1156.9	1156.7	1156.1	1155.6
145°	1199.9	1200.4	1200.9	1201.3	1200.9	1200.4	1199.9	1199.5	1199.1	1198.8	1198.6
147.5°	1237.2	1237.5	1237.6	1237.9	1237.6	1237.5	1237.2	1237.0	1236.7	1236.6	1236.4
150°	1260.9	1261.1	1261.3	1261.6	1261.3	1261.1	1260.9	1260.6	1260.5	1260.5	1260.5
152.5°	1282.3	1282.1	1282.1	1281.9	1282.1	1282.1	1282.3	1282.5	1282.3	1282.0	1281.6
155°	1311.3	1310.6	1309.9	1309.2	1309.9	1310.6	1311.3	1312.0	1311.9	1310.9	1310.0
157.5°	1335.7	1334.5	1333.3	1332.0	1333.3	1334.5	1335.7	1336.9	1336.9	1335.7	1334.5
160°	1351.4	1350.1	1348.7	1347.3	1348.7	1350.1	1351.4	1352.9	1352.9	1351.4	1350.1
162.5°	1363.9	1362.3	1360.7	1359.1	1360.7	1362.3	1363.9	1365.5	1365.5	1364.2	1362.8
165°	1382.2	1380.1	1377.9	1375.8	1377.9	1380.1	1382.2	1384.2	1384.4	1382.5	1380.6
167.5°	1395.3	1392.9	1390.7	1388.3	1390.7	1392.9	1395.3	1397.7	1397.8	1395.7	1393.7
170°	1403.0	1400.6	1398.2	1395.9	1398.2	1400.6	1403.0	1405.2	1405.5	1403.6	1401.7
172.5°	1407.7	1405.2	1402.6	1400.1	1402.6	1405.2	1407.7	1410.3	1410.6	1408.8	1406.8
175°	1413.9	1411.0	1408.2	1405.4	1408.2	1411.0	1413.9	1416.7	1417.1	1415.0	1412.8
177.5°	1415.5	1413.3	1411.0	1408.8	1411.0	1413.3	1415.5	1417.8	1418.2	1416.7	1415.2
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1502.1	1504.2	1512.5	1520.4	1529.7	1536.5	1541.2	1546.4	1557.3	1566.2	1574.5
5°	1407.4	1410.6	1427.5	1439.2	1459.4	1477.0	1490.7	1505.6	1523.2	1547.3	1569.5
7.5°	1323.9	1336.0	1354.5	1373.5	1394.1	1417.1	1437.1	1459.7	1490.0	1523.1	1557.2
10°	1276.5	1290.2	1309.7	1331.9	1351.4	1378.0	1402.8	1429.5	1464.0	1504.3	1544.7
12.5°	1229.1	1251.6	1266.5	1292.7	1313.9	1335.9	1362.2	1397.2	1437.5	1479.8	1528.5
15°	1169.7	1182.1	1210.7	1225.1	1255.0	1288.9	1314.9	1350.1	1389.1	1445.1	1499.7
17.5°	1101.3	1117.5	1140.4	1167.7	1202.0	1228.5	1260.9	1297.1	1346.3	1401.9	1470.4
20°	1056.5	1070.2	1098.1	1128.0	1164.6	1192.5	1227.0	1262.2	1313.0	1372.2	1443.8
22.5°	1016.4	1029.6	1059.1	1087.0	1122.3	1156.6	1192.6	1233.5	1282.2	1344.6	1417.7
25°	954.3	971.8	997.9	1026.5	1060.4	1099.4	1138.5	1174.9	1227.0	1292.7	1370.9
27.5°	899.2	913.3	932.1	964.7	1003.1	1040.9	1079.6	1125.5	1175.5	1245.0	1326.1
30°	863.8	876.9	895.7	925.6	961.5	1001.8	1042.2	1086.4	1138.5	1207.5	1290.2
32.5°	835.7	845.5	862.3	889.2	921.9	964.3	1004.1	1049.9	1104.6	1172.6	1253.2
35°	794.2	802.6	809.1	834.5	863.8	902.9	943.2	992.1	1044.8	1109.2	1189.9
37.5°	753.4	756.3	765.8	782.4	810.8	846.8	884.3	932.3	986.3	1051.8	1124.5
40°	728.4	729.7	735.6	751.2	775.9	809.8	846.2	893.7	945.2	1007.0	1079.3
42.5°	703.9	703.1	708.5	719.4	742.6	773.3	809.3	852.6	904.0	961.2	1029.2
45°	665.3	665.3	664.0	673.1	691.9	721.9	751.9	793.5	836.5	892.4	949.7
47.5°	624.9	621.3	622.4	627.1	643.0	667.6	697.8	731.9	769.8	817.2	867.5
50°	598.8	593.7	591.7	596.9	611.2	632.8	661.4	691.3	727.1	768.7	811.7
52.5°	570.2	565.0	561.5	565.2	578.5	598.3	624.4	650.7	682.8	716.7	753.9
55°	525.9	520.1	518.1	519.4	529.2	544.9	567.0	591.1	615.1	643.1	669.2
57.5°	482.3	472.7	470.9	470.3	477.0	491.3	509.8	530.7	548.2	565.2	592.9
60°	453.7	442.0	438.1	437.4	442.6	454.4	471.2	492.1	504.5	516.2	540.3
62.5°	423.0	411.8	403.2	404.1	408.8	420.0	434.8	450.0	458.1	470.9	487.1
65°	375.6	361.3	354.7	352.8	355.4	364.5	376.3	386.0	395.1	400.3	416.0
67.5°	328.2	316.3	306.6	304.3	303.0	309.3	318.9	324.8	331.3	335.9	345.1
70°	294.9	284.5	272.7	268.8	268.2	273.4	282.5	283.2	292.3	294.2	304.0
72.5°	262.0	249.1	241.0	237.1	234.3	239.0	245.0	246.7	251.7	255.2	260.2
75°	210.9	201.1	193.3	187.4	185.5	188.1	188.1	191.4	194.6	196.6	202.4
77.5°	166.0	154.8	145.5	142.2	139.8	138.1	139.6	141.5	140.0	143.3	144.6
80°	134.8	123.0	115.9	114.5	110.6	107.4	106.7	108.7	106.1	107.4	111.3
82.5°	104.0	96.4	88.8	87.5	82.5	80.9	80.2	79.0	79.0	78.8	79.6
85°	61.8	57.3	52.1	48.8	46.9	43.6	43.6	42.3	41.0	39.7	40.4
87.5°	29.9	28.6	25.6	23.7	22.3	19.8	19.4	17.3	16.2	15.2	14.2
90°	24.7	23.2	21.4	19.5	17.6	15.7	13.5	10.9	8.3	5.8	3.2
92.5°	23.8	22.4	20.5	18.7	16.8	14.9	13.9	13.8	13.6	13.5	13.3
95°	24.7	23.2	23.0	22.8	22.6	22.3	26.2	34.2	42.2	50.1	58.1
97.5°	28.0	27.9	54.1	80.4	106.6	132.8	143.4	138.4	133.5	128.5	123.5
100°	42.6	46.6	78.9	111.4	143.8	176.3	190.4	186.1	181.9	177.7	173.4
102.5°	181.1	224.2	228.4	232.7	236.8	241.1	241.7	238.6	235.5	232.4	229.3
105°	332.1	330.0	328.7	327.6	326.4	325.2	323.9	322.5	321.1	319.7	318.3
107.5°	412.4	411.4	409.8	408.1	406.6	405.0	403.8	403.1	402.4	401.7	401.0
110°	466.8	466.4	465.0	463.5	462.1	460.7	459.7	458.9	458.3	457.5	456.8



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	519.6	519.7	519.0	518.4	517.7	517.0	516.1	514.8	513.6	512.3	510.9
115°	596.9	596.4	596.6	596.9	597.1	597.4	597.1	596.4	595.7	595.0	594.3
117.5°	675.9	676.0	675.4	674.9	674.4	673.8	673.1	672.2	671.2	670.3	669.4
120°	723.8	723.3	723.6	723.8	724.1	724.2	723.9	723.0	722.0	721.1	720.2
122.5°	771.8	771.5	771.2	770.9	770.5	770.2	769.8	769.2	768.7	768.1	767.5
125°	838.2	837.6	838.0	838.5	838.9	839.4	839.2	838.2	837.3	836.3	835.4
127.5°	905.5	905.6	904.6	903.4	902.4	901.3	900.7	900.4	900.2	899.9	899.7
130°	945.7	945.4	944.7	944.0	943.3	942.6	942.1	941.8	941.7	941.4	941.2
132.5°	985.4	985.1	984.2	983.3	982.5	981.6	980.9	980.5	980.1	979.7	979.3
135°	1040.0	1039.5	1038.6	1037.6	1036.7	1035.8	1035.4	1035.7	1035.8	1036.1	1036.3
137.5°	1092.5	1091.9	1091.0	1089.9	1088.8	1087.9	1087.3	1087.2	1087.0	1087.0	1086.9
140°	1124.8	1124.1	1123.6	1123.2	1122.7	1122.3	1121.8	1121.3	1120.8	1120.4	1119.9
142.5°	1155.1	1154.5	1154.3	1154.0	1153.7	1153.4	1152.9	1152.0	1151.2	1150.3	1149.5
145°	1198.4	1198.2	1198.2	1198.2	1198.2	1198.2	1197.8	1197.1	1196.4	1195.6	1195.0
147.5°	1236.2	1236.0	1236.2	1236.5	1236.7	1237.0	1236.4	1235.1	1233.8	1232.4	1231.1
150°	1260.5	1260.5	1260.8	1261.0	1261.3	1261.4	1261.1	1260.2	1259.2	1258.3	1257.4
152.5°	1281.2	1280.8	1281.2	1281.7	1282.1	1282.5	1282.4	1281.6	1280.8	1280.1	1279.4
155°	1309.0	1308.1	1308.8	1309.5	1310.3	1310.9	1311.2	1310.9	1310.7	1310.4	1310.3
157.5°	1333.3	1332.0	1332.9	1333.6	1334.4	1335.2	1335.7	1335.8	1335.9	1336.1	1336.3
160°	1348.7	1347.3	1347.4	1347.7	1347.9	1348.2	1348.7	1349.3	1350.1	1350.8	1351.4
162.5°	1361.3	1359.9	1360.2	1360.4	1360.7	1360.9	1361.5	1362.4	1363.3	1364.1	1365.0
165°	1378.8	1376.9	1376.9	1376.9	1376.9	1376.9	1377.4	1378.6	1379.8	1381.0	1382.2
167.5°	1391.6	1389.5	1389.7	1389.8	1390.0	1390.1	1390.8	1392.0	1393.3	1394.5	1395.7
170°	1399.9	1398.0	1397.7	1397.5	1397.3	1397.1	1397.7	1399.1	1400.4	1401.9	1403.3
172.5°	1404.9	1403.0	1402.8	1402.6	1402.4	1402.2	1402.7	1404.1	1405.6	1407.0	1408.3
175°	1410.7	1408.6	1408.3	1408.1	1407.9	1407.6	1408.2	1409.7	1411.0	1412.4	1413.9
177.5°	1413.6	1412.2	1411.8	1411.4	1411.0	1410.6	1411.1	1412.4	1413.7	1415.1	1416.4
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1581.8	1587.0	1593.7	1605.2	1609.4	1614.6	1621.9	1621.4	1623.4	1631.3	1648.0
5°	1587.6	1607.9	1627.3	1650.8	1675.5	1691.8	1713.9	1727.6	1741.3	1758.8	1788.8
7.5°	1590.0	1622.0	1657.8	1699.0	1735.5	1777.8	1810.7	1841.7	1869.6	1906.7	1942.5
10°	1586.3	1629.3	1675.5	1727.6	1782.9	1829.8	1872.1	1920.3	1961.3	2006.2	2046.6
12.5°	1579.6	1631.4	1693.2	1751.6	1816.2	1885.5	1938.3	1987.0	2041.5	2093.2	2155.4
15°	1564.2	1635.2	1707.4	1784.2	1870.8	1950.8	2027.1	2090.2	2148.8	2226.3	2307.6
17.5°	1544.7	1621.2	1712.4	1805.3	1895.8	1987.4	2081.6	2176.5	2250.5	2346.7	2410.4
20°	1526.5	1615.0	1708.7	1819.4	1909.8	2023.8	2117.5	2209.3	2310.9	2406.5	2482.7
22.5°	1501.0	1597.8	1697.3	1807.4	1926.6	2040.4	2148.8	2248.4	2349.9	2454.0	2546.3
25°	1468.5	1556.4	1674.2	1799.2	1917.7	2041.3	2165.7	2290.7	2400.0	2510.1	2596.0
27.5°	1413.3	1524.3	1634.0	1763.0	1894.7	2034.6	2167.6	2298.3	2413.0	2503.4	2556.6
30°	1385.2	1481.6	1600.7	1730.2	1872.7	2023.2	2161.8	2290.0	2396.8	2469.1	2490.5
32.5°	1343.5	1443.0	1559.5	1693.8	1844.6	1999.2	2143.6	2264.5	2353.5	2391.4	2365.5
35°	1281.7	1371.6	1489.4	1626.7	1783.5	1948.2	2090.8	2193.0	2238.6	2202.8	2113.6
37.5°	1207.5	1296.6	1414.9	1549.8	1712.1	1879.5	2008.4	2081.9	2066.9	1977.8	1844.9
40°	1155.4	1238.8	1351.4	1497.1	1655.4	1823.3	1936.6	1976.3	1934.6	1807.0	1665.7
42.5°	1097.6	1178.8	1292.0	1432.6	1600.2	1755.1	1853.7	1857.0	1787.2	1634.7	1492.9
45°	1009.6	1087.0	1193.8	1340.3	1495.3	1641.0	1706.1	1674.2	1545.3	1398.2	1255.6
47.5°	922.8	989.9	1095.1	1234.2	1381.3	1504.1	1536.4	1479.0	1341.6	1198.8	1066.7
50°	859.2	926.9	1025.9	1158.7	1300.6	1406.7	1422.3	1346.1	1211.4	1067.6	964.0
52.5°	798.3	865.5	960.8	1083.7	1213.7	1309.3	1309.9	1221.7	1087.4	959.2	863.0
55°	708.9	769.4	855.3	965.3	1081.2	1156.1	1137.8	1046.7	930.2	818.9	734.9
57.5°	622.7	675.4	754.6	846.4	948.4	1010.2	979.9	892.2	788.1	693.7	630.1
60°	567.0	617.1	684.8	771.4	857.3	905.5	876.9	797.4	701.7	625.6	570.2
62.5°	512.8	555.1	620.2	695.4	775.0	810.7	785.1	706.8	624.1	555.2	510.4
65°	436.1	470.7	522.7	587.2	645.1	675.7	654.2	581.3	518.1	468.7	432.8
67.5°	364.5	391.5	430.9	482.6	531.8	548.4	528.8	478.1	424.5	385.0	359.7
70°	315.0	340.5	373.7	413.4	456.3	473.9	454.4	414.0	370.4	333.9	309.2
72.5°	271.8	291.5	319.5	353.4	387.0	404.6	391.3	352.5	315.7	288.6	267.5
75°	207.0	224.0	243.4	267.5	293.6	305.3	293.6	266.8	241.5	221.4	206.4
77.5°	150.5	159.6	174.7	192.7	209.0	217.9	207.8	189.7	174.2	160.4	153.0
80°	114.5	121.1	131.5	145.8	156.9	165.3	158.8	143.8	131.5	122.4	119.1
82.5°	83.3	87.7	94.5	105.2	112.6	116.9	114.1	103.2	98.2	90.1	86.8
85°	41.0	43.6	48.2	51.4	58.0	58.6	59.3	54.7	50.1	48.2	45.6
87.5°	15.2	16.2	18.3	20.4	22.9	23.8	23.7	24.1	22.3	22.1	20.3
90°	5.8	8.3	10.9	13.5	15.7	17.6	19.5	21.4	23.2	24.7	26.1
92.5°	13.5	13.6	13.8	13.9	14.9	16.8	18.7	20.5	22.4	23.8	25.3
95°	50.1	42.2	34.2	26.2	22.3	22.6	22.8	23.0	23.2	24.7	26.1
97.5°	128.5	133.5	138.4	143.4	132.8	106.6	80.4	54.1	27.9	28.0	28.2
100°	177.7	181.9	186.1	190.4	176.3	143.8	111.4	78.9	46.6	42.6	38.6
102.5°	232.4	235.5	238.6	241.7	241.1	236.8	232.7	228.4	224.2	181.1	138.0
105°	319.7	321.1	322.5	323.9	325.2	326.4	327.6	328.7	330.0	332.1	334.2
107.5°	401.7	402.4	403.1	403.8	405.0	406.6	408.1	409.8	411.4	412.4	413.4
110°	457.5	458.3	458.9	459.7	460.7	462.1	463.5	465.0	466.4	466.8	467.3



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	512.3	513.6	514.8	516.1	517.0	517.7	518.4	519.0	519.7	519.6	519.4
115°	595.0	595.7	596.4	597.1	597.4	597.1	596.9	596.6	596.4	596.9	597.4
117.5°	670.3	671.2	672.2	673.1	673.8	674.4	674.9	675.4	676.0	675.9	675.7
120°	721.1	722.0	723.0	723.9	724.2	724.1	723.8	723.6	723.3	723.8	724.2
122.5°	768.1	768.7	769.2	769.8	770.2	770.5	770.9	771.2	771.5	771.8	772.1
125°	836.3	837.3	838.2	839.2	839.4	838.9	838.5	838.0	837.6	838.2	838.9
127.5°	899.9	900.2	900.4	900.7	901.3	902.4	903.4	904.6	905.6	905.5	905.4
130°	941.4	941.7	941.8	942.1	942.6	943.3	944.0	944.7	945.4	945.7	945.8
132.5°	979.7	980.1	980.5	980.9	981.6	982.5	983.3	984.2	985.1	985.4	985.6
135°	1036.1	1035.8	1035.7	1035.4	1035.8	1036.7	1037.6	1038.6	1039.5	1040.0	1040.5
137.5°	1087.0	1087.0	1087.2	1087.3	1087.9	1088.8	1089.9	1091.0	1091.9	1092.5	1093.0
140°	1120.4	1120.8	1121.3	1121.8	1122.3	1122.7	1123.2	1123.6	1124.1	1124.8	1125.5
142.5°	1150.3	1151.2	1152.0	1152.9	1153.4	1153.7	1154.0	1154.3	1154.5	1155.1	1155.6
145°	1195.6	1196.4	1197.1	1197.8	1198.2	1198.2	1198.2	1198.2	1198.2	1198.4	1198.6
147.5°	1232.4	1233.8	1235.1	1236.4	1237.0	1236.7	1236.5	1236.2	1236.0	1236.2	1236.4
150°	1258.3	1259.2	1260.2	1261.1	1261.4	1261.3	1261.0	1260.8	1260.5	1260.5	1260.5
152.5°	1280.1	1280.8	1281.6	1282.4	1282.5	1282.1	1281.7	1281.2	1280.8	1281.2	1281.6
155°	1310.4	1310.7	1310.9	1311.2	1310.9	1310.3	1309.5	1308.8	1308.1	1309.0	1310.0
157.5°	1336.1	1335.9	1335.8	1335.7	1335.2	1334.4	1333.6	1332.9	1332.0	1333.3	1334.5
160°	1350.8	1350.1	1349.3	1348.7	1348.2	1347.9	1347.7	1347.4	1347.3	1348.7	1350.1
162.5°	1364.1	1363.3	1362.4	1361.5	1360.9	1360.7	1360.4	1360.2	1359.9	1361.3	1362.8
165°	1381.0	1379.8	1378.6	1377.4	1376.9	1376.9	1376.9	1376.9	1376.9	1378.8	1380.6
167.5°	1394.5	1393.3	1392.0	1390.8	1390.1	1390.0	1389.8	1389.7	1389.5	1391.6	1393.7
170°	1401.9	1400.4	1399.1	1397.7	1397.1	1397.3	1397.5	1397.7	1398.0	1399.9	1401.7
172.5°	1407.0	1405.6	1404.1	1402.7	1402.2	1402.4	1402.6	1402.8	1403.0	1404.9	1406.8
175°	1412.4	1411.0	1409.7	1408.2	1407.6	1407.9	1408.1	1408.3	1408.6	1410.7	1412.8
177.5°	1415.1	1413.7	1412.4	1411.1	1410.6	1411.0	1411.4	1411.8	1412.2	1413.6	1415.2
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1656.3	1657.3	1662.0	1665.7	1666.7	1671.9	1672.4
5°	1801.8	1812.9	1834.3	1836.3	1839.6	1856.5	1843.5
7.5°	1972.4	2000.5	2019.3	2035.8	2041.8	2049.2	2047.6
10°	2081.7	2123.4	2144.2	2177.4	2178.7	2187.2	2182.0
12.5°	2191.6	2240.0	2278.0	2284.1	2312.0	2316.3	2323.6
15°	2347.3	2398.7	2451.4	2470.4	2508.8	2517.9	2532.2
17.5°	2493.7	2546.3	2583.2	2632.0	2647.8	2668.9	2654.5
20°	2573.8	2631.1	2678.0	2716.4	2732.6	2744.4	2743.1
22.5°	2622.2	2680.1	2718.0	2747.2	2762.3	2767.3	2767.0
25°	2652.6	2685.8	2697.5	2708.6	2691.6	2685.8	2688.4
27.5°	2568.3	2559.6	2529.1	2488.9	2447.3	2414.2	2396.2
30°	2452.1	2401.3	2355.2	2274.4	2232.8	2208.0	2185.9
32.5°	2287.6	2207.1	2118.1	2044.2	1996.8	1960.1	1954.7
35°	2005.6	1884.5	1775.8	1685.3	1638.4	1598.7	1589.6
37.5°	1705.1	1579.3	1481.4	1401.7	1351.4	1323.4	1297.2
40°	1505.6	1397.6	1301.2	1233.5	1195.1	1174.9	1158.7
42.5°	1352.0	1253.4	1157.5	1106.0	1071.2	1058.8	1049.3
45°	1139.8	1048.0	981.6	942.6	922.3	901.6	891.8
47.5°	969.9	895.2	851.4	818.2	796.6	784.2	778.0
50°	873.6	812.4	773.3	748.0	728.4	718.6	713.5
52.5°	788.1	737.9	705.1	684.9	671.6	664.5	662.4
55°	678.9	640.5	619.7	602.1	592.4	585.9	583.3
57.5°	590.1	560.6	543.6	529.2	525.5	520.0	518.1
60°	531.8	509.1	494.7	484.9	481.7	475.2	476.5
62.5°	480.3	461.6	449.4	443.8	439.5	434.1	435.9
65°	406.2	392.5	386.0	380.8	375.6	372.3	375.0
67.5°	340.8	331.5	322.6	319.6	317.0	316.5	313.7
70°	298.2	290.3	282.5	280.5	280.5	277.9	277.3
72.5°	257.0	251.3	246.1	244.6	242.6	243.6	240.8
75°	198.5	194.0	192.0	190.0	189.4	189.4	187.4
77.5°	146.8	143.3	140.2	140.2	137.9	137.0	136.7
80°	111.3	110.0	107.4	107.4	106.1	106.7	105.4
82.5°	83.7	81.9	81.4	80.3	78.5	78.6	77.4
85°	44.9	43.0	42.3	40.4	39.1	40.4	39.1
87.5°	21.1	20.9	20.5	19.6	19.2	19.2	17.8
90°	27.5	28.9	29.8	30.3	30.8	31.2	31.7
92.5°	26.7	28.0	28.8	28.9	29.0	29.1	29.2
95°	27.5	28.9	29.8	29.9	30.2	30.4	30.7
97.5°	28.4	28.5	28.7	28.9	29.1	29.4	29.6
100°	34.6	30.6	28.7	28.9	29.1	29.4	29.6
102.5°	94.9	51.8	30.2	30.3	30.3	30.4	30.5
105°	336.3	338.4	335.3	326.8	318.3	309.8	301.4
107.5°	414.5	415.5	416.5	417.4	418.2	419.1	420.0
110°	467.7	468.2	468.8	469.5	470.3	470.9	471.7



TEST NUMBER: P332853-930

CATALOG NUMBER: S124DIW-S1195D1340U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	519.3	519.3	519.7	520.6	521.5	522.4	523.3
115°	597.9	598.3	598.5	598.5	598.5	598.5	598.5
117.5°	675.6	675.6	675.5	675.4	675.3	675.2	675.1
120°	724.7	725.2	725.2	724.7	724.2	723.8	723.3
122.5°	772.4	772.7	772.6	772.1	771.6	771.2	770.7
125°	839.7	840.3	840.8	841.1	841.3	841.6	841.8
127.5°	905.2	905.1	904.9	904.7	904.5	904.3	904.2
130°	946.1	946.3	946.5	946.5	946.5	946.5	946.5
132.5°	985.9	986.1	986.1	985.9	985.8	985.5	985.4
135°	1040.9	1041.4	1041.9	1042.4	1042.8	1043.3	1043.7
137.5°	1093.5	1094.1	1094.2	1094.1	1094.0	1093.8	1093.6
140°	1126.3	1126.9	1127.4	1127.6	1127.9	1128.1	1128.4
142.5°	1156.1	1156.7	1156.9	1157.0	1157.0	1157.1	1157.1
145°	1198.8	1199.1	1199.5	1199.9	1200.4	1200.9	1201.3
147.5°	1236.6	1236.7	1237.0	1237.2	1237.5	1237.6	1237.9
150°	1260.5	1260.5	1260.6	1260.9	1261.1	1261.3	1261.6
152.5°	1282.0	1282.3	1282.5	1282.3	1282.1	1282.1	1281.9
155°	1310.9	1311.9	1312.0	1311.3	1310.6	1309.9	1309.2
157.5°	1335.7	1336.9	1336.9	1335.7	1334.5	1333.3	1332.0
160°	1351.4	1352.9	1352.9	1351.4	1350.1	1348.7	1347.3
162.5°	1364.2	1365.5	1365.5	1363.9	1362.3	1360.7	1359.1
165°	1382.5	1384.4	1384.2	1382.2	1380.1	1377.9	1375.8
167.5°	1395.7	1397.8	1397.7	1395.3	1392.9	1390.7	1388.3
170°	1403.6	1405.5	1405.2	1403.0	1400.6	1398.2	1395.9
172.5°	1408.8	1410.6	1410.3	1407.7	1405.2	1402.6	1400.1
175°	1415.0	1417.1	1416.7	1413.9	1411.0	1408.2	1405.4
177.5°	1416.7	1418.2	1417.8	1415.5	1413.3	1411.0	1408.8
180°	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9	1413.9

(END OF REPORT)