

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: P333072-940

Luminaire Tested: **S124RDIW-S795D1560U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333072-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S795D1560U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7803.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

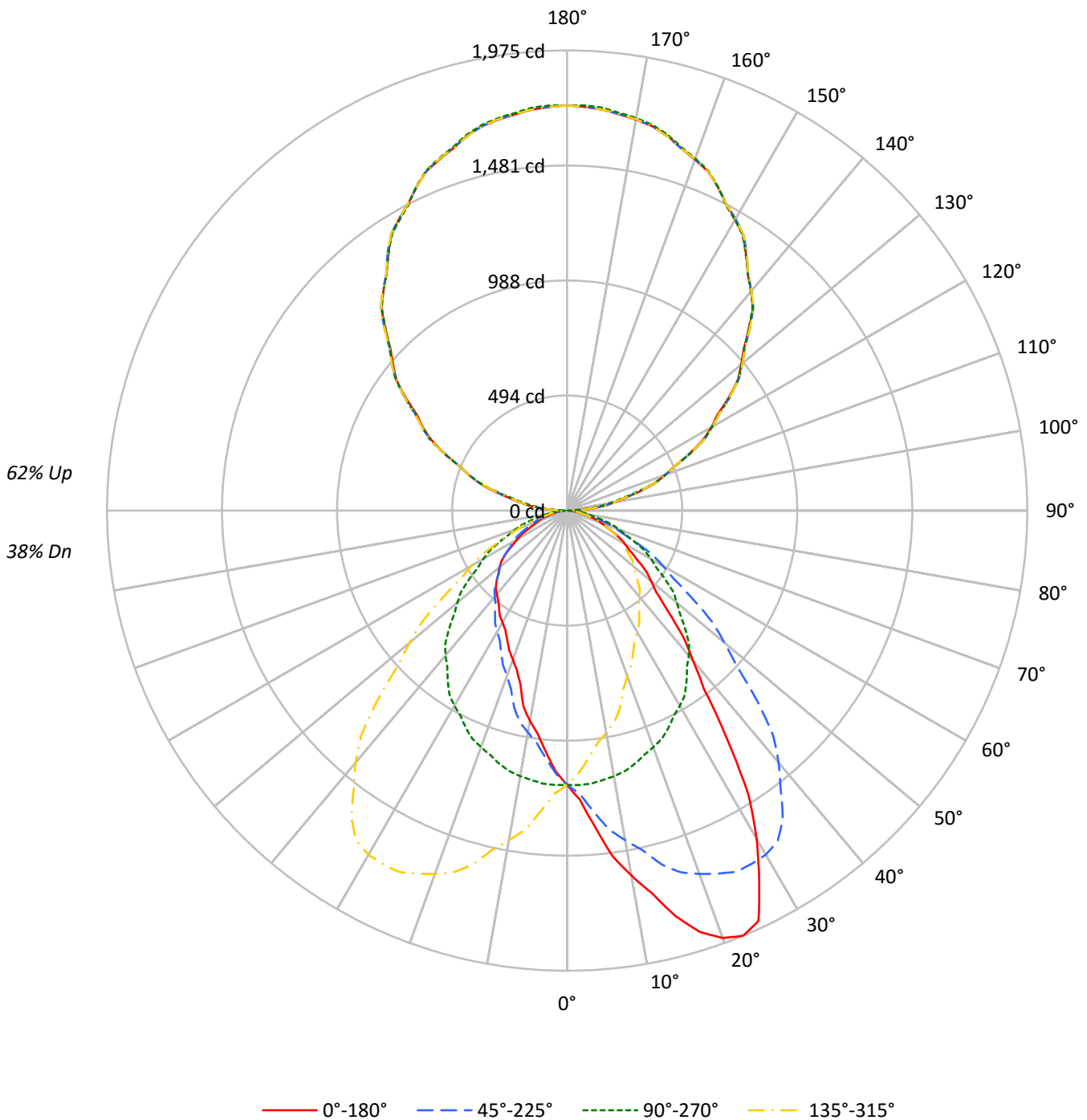
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	26	24	22	18
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	15
8	53	41	34	28	48	38	31	27	32	26	23	26	22	19	20	17	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9503	9503	9503	9503
5°	11022	9532	8425	9532
10°	13039	9489	7519	9489
15°	15061	9402	6461	9402
20°	16770	9281	5843	9281
25°	17312	9163	5424	9163
30°	15155	9018	5172	9018
35°	11797	8806	5019	8806
40°	8847	8560	4938	8560
45°	6985	8170	4894	8170
50°	5897	7720	4752	7720
55°	5140	7222	4500	7222
60°	4624	6707	3982	6707
65°	4076	6151	3423	6151
70°	3670	5575	3090	5575
75°	3075	4941	2633	4941
80°	2603	4212	2469	4212
85°	2195	3298	2195	3298



TEST NUMBER: P333072-940

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.5
10°-20°	344.0	4.4
20°-30°	538.1	6.9
30°-40°	598.2	7.7
40°-50°	530.7	6.8
50°-60°	413.6	5.3
60°-70°	270.8	3.5
70°-80°	133.1	1.7
80°-90°	38.0	0.5
90°-100°	114.7	1.5
100°-110°	339.7	4.4
110°-120°	576.5	7.4
120°-130°	760.2	9.7
130°-140°	853.8	10.9
140°-150°	839.0	10.8
150°-160°	705.6	9.0
160°-170°	469.5	6.0
170°-180°	164.4	2.1
0°-30°	996.2	12.8
0°-40°	1594.3	20.4
0°-60°	2538.6	32.5
0°-90°	2980.6	38.2
90°-120°	1030.9	13.2
90°-150°	3483.9	44.6
90°-180°	4823.0	61.8
0°-180°	7803.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1177	1177	1177	1177	1177	
5°	1360	1176	1040	1176	1360	138
15°	1802	1125	773	1125	1802	512
25°	1944	1029	609	1029	1944	862
35°	1197	894	509	894	1197	750
45°	612	716	429	716	612	485
55°	365	513	320	513	365	332
65°	213	322	179	322	213	215
75°	99	158	84	158	99	109
85°	24	36	24	36	24	28
90°	40	4	40	4	40	21
95°	106	81	106	81	106	111
105°	328	313	328	313	328	346
115°	581	586	581	586	581	574
125°	847	854	847	854	847	756
135°	1102	1101	1102	1101	1102	851
145°	1339	1338	1339	1338	1339	838
155°	1531	1533	1531	1533	1531	705
165°	1665	1669	1665	1669	1665	469
175°	1728	1736	1728	1736	1728	164
180°	1738	1738	1738	1738	1738	



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1241.5	1245.0	1241.5	1241.2	1237.4	1236.3	1234.8	1229.8	1220.7	1215.4	1216.6
5°	1360.1	1372.0	1365.4	1364.4	1354.0	1343.5	1336.9	1321.7	1305.6	1294.7	1285.7
7.5°	1497.3	1504.1	1499.9	1493.3	1476.4	1466.9	1451.4	1431.5	1402.6	1380.5	1360.2
10°	1590.6	1596.3	1594.4	1582.1	1569.8	1544.6	1530.4	1502.4	1465.9	1437.0	1410.0
12.5°	1682.4	1688.5	1671.8	1672.4	1649.0	1629.2	1606.7	1571.5	1529.3	1492.0	1458.1
15°	1802.1	1794.6	1794.6	1785.0	1759.0	1731.4	1708.3	1671.2	1618.1	1573.5	1526.6
17.5°	1895.9	1898.5	1894.6	1872.2	1851.7	1823.3	1780.7	1737.5	1688.2	1628.4	1580.4
20°	1952.0	1952.0	1947.8	1932.5	1906.0	1875.6	1829.6	1782.7	1720.1	1659.8	1605.8
22.5°	1974.8	1976.3	1971.2	1958.7	1934.8	1905.2	1866.1	1818.4	1753.8	1686.0	1619.1
25°	1943.5	1952.5	1953.4	1950.1	1942.9	1924.9	1891.3	1842.5	1784.6	1711.1	1639.0
27.5°	1784.3	1795.6	1805.6	1822.0	1843.9	1855.2	1856.7	1831.9	1781.5	1710.7	1638.2
30°	1625.7	1635.2	1666.0	1706.3	1737.7	1766.1	1790.7	1797.4	1769.0	1705.4	1629.1
32.5°	1449.7	1462.6	1493.4	1536.8	1588.9	1637.1	1692.5	1720.7	1720.0	1681.9	1611.2
35°	1197.0	1206.5	1234.9	1280.5	1343.1	1414.7	1502.4	1570.7	1617.2	1613.8	1570.7
37.5°	965.4	976.1	1004.9	1042.6	1103.3	1191.9	1276.8	1370.9	1456.9	1505.1	1490.8
40°	839.5	839.9	867.9	906.8	963.7	1041.0	1133.5	1237.8	1333.6	1411.8	1427.0
42.5°	740.0	740.1	758.6	800.5	841.5	914.3	1002.6	1106.2	1218.3	1308.7	1348.9
45°	611.8	616.1	631.2	656.4	688.6	750.3	820.9	917.2	1042.9	1150.0	1216.9
47.5°	518.1	524.3	534.0	554.5	580.1	621.3	679.7	766.2	868.4	986.3	1081.5
50°	469.5	470.5	482.8	494.2	516.5	549.2	600.4	672.4	766.3	879.8	985.5
52.5°	427.8	427.6	435.0	449.4	467.5	493.0	534.4	600.0	683.3	784.9	894.0
55°	365.2	367.6	373.3	384.6	398.3	416.4	449.1	498.5	563.9	650.7	749.8
57.5°	317.5	318.8	323.2	328.1	340.7	353.8	378.4	412.6	467.8	538.9	631.2
60°	286.4	287.0	288.4	295.4	305.4	317.7	334.3	363.3	409.7	474.7	547.8
62.5°	256.1	256.9	259.1	264.3	272.1	280.5	297.9	321.2	359.6	415.2	481.0
65°	213.4	213.9	217.2	219.1	225.2	232.8	245.7	261.3	287.8	334.3	384.1
67.5°	178.3	178.3	178.5	181.1	185.3	190.4	198.0	210.5	230.6	259.1	303.0
70°	155.5	155.5	156.5	157.9	160.3	164.5	168.8	178.3	193.1	216.2	249.9
72.5°	134.3	134.6	135.6	135.9	137.1	140.6	143.8	149.9	160.8	178.3	205.5
75°	98.6	100.0	102.5	104.3	106.7	106.2	109.6	113.3	116.6	127.1	142.8
77.5°	73.4	72.7	72.9	74.5	74.8	75.3	77.7	80.6	83.1	88.0	93.6
80°	56.0	56.0	57.4	57.9	57.4	57.9	60.2	61.6	62.6	64.5	69.7
82.5°	42.3	43.1	42.6	43.1	43.3	43.8	45.8	46.1	47.1	47.8	50.0
85°	23.7	24.2	24.7	23.7	23.7	23.7	24.7	25.1	26.1	25.6	26.6
87.5°	16.4	15.9	16.1	16.1	16.3	15.7	15.7	16.1	15.0	15.0	14.5
90°	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2	31.4	29.6	27.2
92.5°	59.7	59.3	58.9	58.6	58.2	57.5	56.4	55.4	54.3	53.2	51.5
95°	106.2	106.2	106.2	106.2	106.2	105.8	104.9	104.0	103.1	102.2	100.1
97.5°	166.5	166.5	166.5	166.5	166.5	165.9	164.9	163.8	162.6	161.6	159.2
100°	208.4	208.4	208.4	208.4	208.4	208.1	207.5	206.9	206.3	205.7	203.0
102.5°	255.7	255.5	255.3	255.0	254.8	254.2	253.4	252.5	251.7	250.9	248.4
105°	328.1	327.2	326.3	325.4	324.5	323.6	322.7	321.8	320.9	320.0	318.8
107.5°	398.5	398.6	398.7	398.7	398.8	398.4	397.5	396.7	395.8	395.0	394.8
110°	449.1	448.2	447.3	446.4	445.5	445.3	445.9	446.6	447.1	447.7	448.0



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	500.7	500.5	500.3	500.2	500.0	500.0	500.1	500.2	500.3	500.4	501.0
115°	580.9	581.1	581.5	581.8	582.0	582.4	582.6	582.9	583.3	583.5	584.2
117.5°	657.2	657.8	658.4	659.0	659.6	660.4	661.5	662.5	663.4	664.5	664.9
120°	715.3	714.7	714.1	713.5	712.9	713.4	714.9	716.3	717.8	719.3	720.2
122.5°	763.8	764.8	765.9	767.0	768.0	769.1	770.1	771.1	772.1	773.1	773.6
125°	847.0	847.7	848.3	848.8	849.4	850.1	850.7	851.2	851.9	852.5	852.7
127.5°	924.3	924.7	925.2	925.7	926.1	926.7	927.3	927.9	928.4	929.1	929.6
130°	974.8	976.0	977.2	978.4	979.5	980.4	981.1	981.7	982.3	982.8	982.8
132.5°	1028.6	1029.0	1029.6	1030.0	1030.5	1031.0	1031.6	1032.2	1032.9	1033.4	1033.7
135°	1102.5	1103.4	1104.3	1105.2	1106.1	1106.9	1107.5	1108.0	1108.7	1109.3	1109.3
137.5°	1180.3	1180.1	1179.9	1179.7	1179.6	1179.8	1180.6	1181.4	1182.1	1182.9	1182.5
140°	1227.6	1227.9	1228.2	1228.5	1228.8	1229.0	1229.4	1229.7	1229.9	1230.3	1230.3
142.5°	1274.9	1275.0	1275.1	1275.1	1275.1	1275.2	1275.2	1275.3	1275.4	1275.4	1275.7
145°	1339.2	1340.1	1341.0	1341.8	1342.7	1343.4	1343.6	1344.0	1344.3	1344.5	1344.3
147.5°	1404.3	1404.5	1404.9	1405.2	1405.4	1405.7	1406.0	1406.2	1406.4	1406.7	1406.9
150°	1444.0	1444.4	1444.7	1444.9	1445.3	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
152.5°	1480.6	1481.4	1482.2	1482.9	1483.7	1483.7	1483.0	1482.3	1481.6	1480.9	1480.7
155°	1531.4	1532.7	1533.8	1535.0	1536.2	1536.2	1535.0	1533.8	1532.7	1531.4	1531.8
157.5°	1576.9	1577.9	1579.0	1579.9	1580.9	1581.0	1580.1	1579.2	1578.3	1577.4	1577.5
160°	1602.7	1604.2	1605.7	1607.2	1608.6	1609.0	1608.1	1607.2	1606.3	1605.4	1605.7
162.5°	1629.6	1631.1	1632.6	1634.1	1635.6	1635.5	1633.9	1632.3	1630.7	1629.1	1629.3
165°	1664.6	1665.7	1667.0	1668.1	1669.4	1669.0	1667.2	1665.4	1663.7	1661.9	1662.5
167.5°	1689.5	1691.4	1693.3	1695.1	1697.0	1697.0	1695.2	1693.4	1691.7	1689.9	1689.8
170°	1703.5	1705.7	1707.7	1709.9	1711.9	1712.1	1710.3	1708.5	1706.6	1704.9	1704.6
172.5°	1715.4	1717.4	1719.6	1721.6	1723.8	1723.8	1721.7	1719.8	1717.7	1715.7	1715.6
175°	1727.8	1729.8	1732.0	1734.0	1736.2	1736.2	1734.0	1732.0	1729.8	1727.8	1728.0
177.5°	1734.2	1736.2	1738.0	1739.9	1741.9	1742.0	1740.3	1738.7	1737.0	1735.3	1735.3
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1212.7	1207.5	1204.8	1198.7	1191.5	1187.7	1184.3	1179.4	1172.9	1166.1	1161.1
5°	1274.3	1262.9	1248.7	1231.6	1216.5	1201.8	1188.9	1176.2	1161.5	1146.2	1131.0
7.5°	1337.5	1315.1	1290.9	1262.9	1235.7	1210.9	1188.2	1166.4	1141.7	1119.6	1099.5
10°	1381.4	1351.1	1317.4	1281.9	1246.3	1215.5	1185.2	1157.6	1127.3	1100.3	1077.5
12.5°	1417.1	1381.4	1341.0	1296.6	1253.9	1216.7	1181.7	1145.8	1111.3	1082.0	1051.7
15°	1476.3	1427.5	1373.0	1319.8	1264.4	1213.6	1166.6	1124.9	1085.6	1044.3	1015.4
17.5°	1517.0	1459.0	1392.8	1328.9	1263.4	1203.5	1149.4	1099.7	1054.3	1012.1	977.7
20°	1541.3	1477.3	1403.7	1331.2	1257.7	1193.6	1135.3	1080.3	1033.4	987.8	952.3
22.5°	1555.0	1484.1	1403.7	1327.8	1251.6	1182.3	1118.3	1061.0	1009.9	964.3	925.0
25°	1559.3	1483.5	1401.4	1314.1	1230.7	1157.2	1090.7	1028.7	971.7	926.2	884.5
27.5°	1553.3	1463.9	1379.8	1290.3	1204.2	1126.7	1057.0	991.8	934.8	885.9	843.1
30°	1544.2	1448.3	1358.3	1265.2	1178.0	1103.6	1030.0	967.4	908.2	857.5	814.3
32.5°	1524.4	1429.4	1332.4	1237.2	1148.8	1072.1	1002.4	939.4	881.3	829.4	783.5
35°	1485.3	1389.1	1283.8	1186.1	1099.3	1019.6	954.2	893.5	838.0	782.5	734.1
37.5°	1433.9	1335.5	1230.7	1123.7	1036.9	961.7	901.6	844.6	790.5	739.9	686.3
40°	1385.3	1295.7	1187.5	1081.3	992.1	919.5	864.1	812.3	757.9	707.6	654.0
42.5°	1326.4	1250.1	1140.9	1034.2	946.2	876.3	824.7	774.1	724.4	675.7	619.8
45°	1228.3	1170.5	1068.0	965.5	876.9	807.6	760.2	715.6	672.0	625.5	572.9
47.5°	1115.8	1076.7	988.2	883.3	801.3	739.0	693.1	656.7	619.8	573.4	527.2
50°	1037.7	1012.5	927.1	831.3	753.1	695.7	648.8	614.7	583.8	539.2	497.9
52.5°	954.2	940.8	868.7	777.1	701.5	645.2	605.1	574.4	543.2	506.2	467.6
55°	827.1	834.2	773.0	693.8	622.7	575.2	538.8	513.1	486.6	455.3	425.4
57.5°	697.1	723.1	682.1	612.5	545.8	502.0	474.6	453.0	430.7	404.7	379.2
60°	619.4	641.1	618.0	556.8	498.5	457.6	432.0	415.4	393.2	369.4	350.0
62.5°	543.5	566.9	553.0	503.6	449.5	414.4	391.8	376.4	359.8	339.1	318.9
65°	448.2	463.3	456.7	422.6	384.1	354.3	333.4	322.0	306.8	291.7	273.7
67.5°	343.2	372.6	368.7	350.5	317.4	294.0	280.4	270.3	256.5	245.2	232.9
70°	282.1	309.2	308.7	294.0	276.0	254.2	244.7	236.2	223.8	212.9	203.0
72.5°	231.0	255.7	259.4	248.2	235.8	219.3	210.2	204.3	192.3	184.9	176.8
75°	161.8	179.8	184.5	184.5	178.8	170.2	162.2	158.4	149.9	143.2	138.5
77.5°	106.0	117.4	124.8	126.5	127.4	124.6	117.9	115.2	108.7	106.3	101.7
80°	74.9	82.5	91.0	93.9	96.3	95.3	92.5	90.6	84.4	82.0	80.2
82.5°	51.8	56.0	63.0	69.2	68.6	71.1	68.6	67.1	62.4	61.5	59.7
85°	27.0	27.5	28.4	32.7	35.1	36.0	36.6	35.6	34.2	34.2	30.9
87.5°	14.1	13.2	13.5	12.9	12.7	13.5	14.0	13.7	13.2	12.8	12.3
90°	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0	7.3	10.6	13.9
92.5°	49.9	48.2	46.5	43.9	40.0	36.3	32.5	28.8	32.5	36.3	40.0
95°	98.0	95.9	93.8	91.4	88.7	86.1	83.4	80.7	83.4	86.1	88.7
97.5°	156.7	154.3	151.9	149.5	147.4	145.2	143.0	140.9	143.0	145.2	147.4
100°	200.4	197.7	194.9	193.1	191.8	190.6	189.4	188.2	189.4	190.6	191.8
102.5°	246.0	243.5	241.1	239.6	239.2	238.7	238.2	237.7	238.2	238.7	239.2
105°	317.6	316.4	315.2	314.5	314.1	313.9	313.6	313.3	313.6	313.9	314.1
107.5°	394.7	394.5	394.3	394.0	393.7	393.3	393.0	392.6	393.0	393.3	393.7
110°	448.4	448.6	449.0	448.8	448.2	447.5	447.0	446.4	447.0	447.5	448.2



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	501.5	502.0	502.6	502.8	502.7	502.6	502.5	502.3	502.5	502.6	502.7
115°	584.7	585.3	585.9	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
117.5°	665.3	665.8	666.2	666.3	666.0	665.8	665.5	665.3	665.5	665.8	666.0
120°	721.1	722.0	722.9	722.7	721.6	720.4	719.2	718.0	719.2	720.4	721.6
122.5°	773.9	774.4	774.8	774.7	774.3	773.8	773.3	772.8	773.3	773.8	774.3
125°	853.0	853.4	853.6	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
127.5°	930.1	930.5	931.0	930.8	929.9	929.0	928.1	927.2	928.1	929.0	929.9
130°	982.8	982.8	982.8	982.4	981.5	980.6	979.7	978.8	979.7	980.6	981.5
132.5°	1033.9	1034.1	1034.4	1034.2	1033.5	1032.9	1032.2	1031.5	1032.2	1032.9	1033.5
135°	1109.3	1109.3	1109.3	1108.4	1106.6	1104.7	1103.0	1101.2	1103.0	1104.7	1106.6
137.5°	1182.0	1181.5	1181.1	1180.4	1179.6	1178.7	1177.9	1177.1	1177.9	1178.7	1179.6
140°	1230.3	1230.3	1230.3	1229.9	1229.4	1228.8	1228.2	1227.6	1228.2	1228.8	1229.4
142.5°	1275.9	1276.1	1276.4	1276.2	1275.6	1275.1	1274.4	1273.8	1274.4	1275.1	1275.6
145°	1344.0	1343.6	1343.4	1342.6	1341.4	1340.2	1339.0	1337.8	1339.0	1340.2	1341.4
147.5°	1407.1	1407.4	1407.7	1407.0	1405.6	1404.2	1402.8	1401.3	1402.8	1404.2	1405.6
150°	1445.4	1445.4	1445.4	1444.8	1443.6	1442.4	1441.2	1440.0	1441.2	1442.4	1443.6
152.5°	1480.4	1480.2	1480.0	1479.4	1478.7	1478.0	1477.3	1476.6	1477.3	1478.0	1478.7
155°	1532.0	1532.3	1532.7	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
157.5°	1577.5	1577.6	1577.7	1578.0	1578.5	1579.0	1579.6	1580.1	1579.6	1579.0	1578.5
160°	1606.0	1606.3	1606.6	1606.9	1607.2	1607.5	1607.8	1608.1	1607.8	1607.5	1607.2
162.5°	1629.7	1630.0	1630.2	1630.8	1631.6	1632.4	1633.2	1633.9	1633.2	1632.4	1631.6
165°	1663.0	1663.7	1664.3	1665.0	1665.9	1666.8	1667.7	1668.6	1667.7	1666.8	1665.9
167.5°	1689.7	1689.7	1689.6	1690.2	1691.5	1692.7	1694.0	1695.2	1694.0	1692.7	1691.5
170°	1704.3	1704.0	1703.7	1704.3	1705.8	1707.3	1708.8	1710.3	1708.8	1707.3	1705.8
172.5°	1715.6	1715.5	1715.4	1716.0	1717.3	1718.5	1719.8	1721.0	1719.8	1718.5	1717.3
175°	1728.3	1728.7	1728.9	1729.8	1731.3	1732.9	1734.3	1735.8	1734.3	1732.9	1731.3
177.5°	1735.3	1735.3	1735.3	1735.9	1737.1	1738.3	1739.5	1740.6	1739.5	1738.3	1737.1
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1155.8	1152.0	1147.1	1141.4	1134.6	1128.5	1125.9	1128.1	1129.3	1126.2	1125.9
5°	1120.6	1108.8	1099.3	1085.0	1073.7	1064.2	1057.6	1054.7	1055.7	1048.1	1046.2
7.5°	1081.1	1067.0	1051.5	1034.7	1018.9	1005.0	997.6	993.6	985.6	982.1	976.3
10°	1055.7	1036.7	1021.5	1001.6	983.6	967.0	958.9	952.3	944.2	940.4	932.4
12.5°	1029.5	1007.5	990.8	970.1	951.7	931.7	924.0	911.7	899.1	891.1	880.7
15°	992.6	966.1	945.7	921.0	899.2	876.4	856.0	833.2	824.7	806.7	796.3
17.5°	949.4	922.5	897.2	864.2	830.5	802.3	780.5	758.7	745.6	734.1	728.8
20°	921.0	896.3	861.2	822.8	785.3	754.0	736.5	722.3	708.0	700.0	694.3
22.5°	894.0	862.6	821.8	780.3	742.9	718.4	703.5	688.8	677.3	669.7	662.0
25°	848.9	807.6	764.5	717.0	691.4	670.1	654.0	642.1	635.0	625.1	621.3
27.5°	802.5	752.5	704.9	673.1	646.4	626.9	612.8	603.9	594.9	588.5	583.6
30°	766.9	716.1	673.4	643.1	616.1	599.9	588.5	578.1	571.0	565.8	562.0
32.5°	731.6	680.8	645.0	612.3	591.0	575.2	563.1	555.4	549.7	543.1	540.7
35°	680.6	635.5	604.2	574.8	552.9	538.8	529.2	521.2	516.5	514.5	513.1
37.5°	631.5	594.6	561.0	536.8	517.4	506.2	495.0	491.1	487.8	484.4	485.9
40°	600.4	565.8	535.9	510.3	494.6	482.3	475.6	470.9	468.1	468.1	468.1
42.5°	573.5	539.6	510.5	487.5	471.9	461.5	454.1	450.0	449.1	448.7	451.0
45°	531.6	500.3	470.9	451.9	438.6	428.2	424.0	420.6	420.6	422.6	423.0
47.5°	490.2	460.8	437.3	416.0	403.9	397.3	393.6	391.9	392.1	394.0	396.2
50°	464.8	435.9	412.6	393.6	382.3	376.0	372.7	371.8	372.7	372.7	376.0
52.5°	437.0	411.2	388.3	372.4	359.4	353.7	351.9	350.5	351.2	352.7	354.1
55°	396.5	373.3	351.4	336.3	326.7	323.0	318.7	319.1	318.3	319.1	319.1
57.5°	355.8	334.9	314.6	302.6	294.3	288.7	284.1	285.4	284.0	283.8	283.0
60°	329.6	306.8	290.7	279.8	270.3	265.6	261.3	262.3	260.8	259.8	258.0
62.5°	301.1	282.1	266.8	256.3	248.7	243.2	238.9	238.0	234.7	231.4	227.3
65°	259.8	244.2	230.5	220.5	213.4	209.1	205.8	203.0	195.8	188.2	184.5
67.5°	219.8	208.5	195.6	187.3	181.5	175.8	169.5	164.7	158.0	153.8	151.5
70°	193.9	183.1	172.2	164.1	157.9	152.8	145.6	142.3	137.5	135.6	133.2
72.5°	169.3	159.2	149.0	141.7	135.2	131.1	125.5	122.2	120.1	119.3	117.0
75°	131.9	123.8	116.2	109.6	104.3	101.5	99.2	96.8	95.8	91.5	89.2
77.5°	96.2	90.9	86.1	81.4	77.7	75.8	71.2	68.5	66.9	64.9	64.4
80°	74.9	71.2	66.4	63.6	58.3	56.4	54.6	54.0	53.6	53.1	52.6
82.5°	56.4	52.5	47.8	46.1	44.7	43.5	42.4	41.9	41.5	41.7	41.6
85°	28.4	26.6	26.6	26.1	25.6	25.1	24.7	24.7	24.2	24.7	24.2
87.5°	12.9	13.1	13.6	13.3	14.2	14.6	14.6	15.0	15.7	15.3	15.5
90°	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2	35.0	36.7	38.0
92.5°	43.9	46.5	48.2	49.9	51.5	53.2	54.3	55.4	56.4	57.5	58.2
95°	91.4	93.8	95.9	98.0	100.1	102.2	103.1	104.0	104.9	105.8	106.2
97.5°	149.5	151.9	154.3	156.7	159.2	161.6	162.6	163.8	164.9	165.9	166.5
100°	193.1	194.9	197.7	200.4	203.0	205.7	206.3	206.9	207.5	208.1	208.4
102.5°	239.6	241.1	243.5	246.0	248.4	250.9	251.7	252.5	253.4	254.2	254.8
105°	314.5	315.2	316.4	317.6	318.8	320.0	320.9	321.8	322.7	323.6	324.5
107.5°	394.0	394.3	394.5	394.7	394.8	395.0	395.8	396.7	397.5	398.4	398.8
110°	448.8	449.0	448.6	448.4	448.0	447.7	447.1	446.6	445.9	445.3	445.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	502.8	502.6	502.0	501.5	501.0	500.4	500.3	500.2	500.1	500.0	500.0
115°	586.2	585.9	585.3	584.7	584.2	583.5	583.3	582.9	582.6	582.4	582.0
117.5°	666.3	666.2	665.8	665.3	664.9	664.5	663.4	662.5	661.5	660.4	659.6
120°	722.7	722.9	722.0	721.1	720.2	719.3	717.8	716.3	714.9	713.4	712.9
122.5°	774.7	774.8	774.4	773.9	773.6	773.1	772.1	771.1	770.1	769.1	768.0
125°	853.8	853.6	853.4	853.0	852.7	852.5	851.9	851.2	850.7	850.1	849.4
127.5°	930.8	931.0	930.5	930.1	929.6	929.1	928.4	927.9	927.3	926.7	926.1
130°	982.4	982.8	982.8	982.8	982.8	982.8	982.3	981.7	981.1	980.4	979.5
132.5°	1034.2	1034.4	1034.1	1033.9	1033.7	1033.4	1032.9	1032.2	1031.6	1031.0	1030.5
135°	1108.4	1109.3	1109.3	1109.3	1109.3	1109.3	1108.7	1108.0	1107.5	1106.9	1106.1
137.5°	1180.4	1181.1	1181.5	1182.0	1182.5	1182.9	1182.1	1181.4	1180.6	1179.8	1179.6
140°	1229.9	1230.3	1230.3	1230.3	1230.3	1230.3	1229.9	1229.7	1229.4	1229.0	1228.8
142.5°	1276.2	1276.4	1276.1	1275.9	1275.7	1275.4	1275.4	1275.3	1275.2	1275.2	1275.1
145°	1342.6	1343.4	1343.6	1344.0	1344.3	1344.5	1344.3	1344.0	1343.6	1343.4	1342.7
147.5°	1407.0	1407.7	1407.4	1407.1	1406.9	1406.7	1406.4	1406.2	1406.0	1405.7	1405.4
150°	1444.8	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.3
152.5°	1479.4	1480.0	1480.2	1480.4	1480.7	1480.9	1481.6	1482.3	1483.0	1483.7	1483.7
155°	1532.8	1532.7	1532.3	1532.0	1531.8	1531.4	1532.7	1533.8	1535.0	1536.2	1536.2
157.5°	1578.0	1577.7	1577.6	1577.5	1577.5	1577.4	1578.3	1579.2	1580.1	1581.0	1580.9
160°	1606.9	1606.6	1606.3	1606.0	1605.7	1605.4	1606.3	1607.2	1608.1	1609.0	1608.6
162.5°	1630.8	1630.2	1630.0	1629.7	1629.3	1629.1	1630.7	1632.3	1633.9	1635.5	1635.6
165°	1665.0	1664.3	1663.7	1663.0	1662.5	1661.9	1663.7	1665.4	1667.2	1669.0	1669.4
167.5°	1690.2	1689.6	1689.7	1689.7	1689.8	1689.9	1691.7	1693.4	1695.2	1697.0	1697.0
170°	1704.3	1703.7	1704.0	1704.3	1704.6	1704.9	1706.6	1708.5	1710.3	1712.1	1711.9
172.5°	1716.0	1715.4	1715.5	1715.6	1715.6	1715.7	1717.7	1719.8	1721.7	1723.8	1723.8
175°	1729.8	1728.9	1728.7	1728.3	1728.0	1727.8	1729.8	1732.0	1734.0	1736.2	1736.2
177.5°	1735.9	1735.3	1735.3	1735.3	1735.3	1735.3	1737.0	1738.7	1740.3	1742.0	1741.9
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1123.6	1124.4	1121.7	1120.9	1121.7	1124.4	1123.6	1125.9	1126.2	1129.3	1128.1
5°	1042.4	1041.4	1039.1	1039.6	1039.1	1041.4	1042.4	1046.2	1048.1	1055.7	1054.7
7.5°	972.9	969.3	970.3	966.5	970.3	969.3	972.9	976.3	982.1	985.6	993.6
10°	930.5	925.2	921.0	917.2	921.0	925.2	930.5	932.4	940.4	944.2	952.3
12.5°	872.4	868.0	862.2	863.4	862.2	868.0	872.4	880.7	891.1	899.1	911.7
15°	790.1	783.0	771.6	773.0	771.6	783.0	790.1	796.3	806.7	824.7	833.2
17.5°	720.4	720.5	715.2	716.5	715.2	720.5	720.4	728.8	734.1	745.6	758.7
20°	684.3	681.0	681.4	680.1	681.4	681.0	684.3	694.3	700.0	708.0	722.3
22.5°	659.3	655.2	651.9	649.0	651.9	655.2	659.3	662.0	669.7	677.3	688.8
25°	617.0	614.1	609.8	608.9	609.8	614.1	617.0	621.3	625.1	635.0	642.1
27.5°	579.8	579.3	577.6	575.3	577.6	579.3	579.8	583.6	588.5	594.9	603.9
30°	558.2	557.2	556.2	554.8	556.2	557.2	558.2	562.0	565.8	571.0	578.1
32.5°	538.9	538.2	537.3	537.4	537.3	538.2	538.9	540.7	543.1	549.7	555.4
35°	511.2	510.8	509.8	509.3	509.8	510.8	511.2	513.1	514.5	516.5	521.2
37.5°	485.4	486.7	486.1	486.0	486.1	486.7	485.4	485.9	484.4	487.8	491.1
40°	467.6	468.1	469.0	468.6	469.0	468.1	467.6	468.1	468.1	468.1	470.9
42.5°	452.8	452.9	454.2	452.6	454.2	452.9	452.8	451.0	448.7	449.1	450.0
45°	426.3	429.2	428.7	428.7	428.7	429.2	426.3	423.0	422.6	420.6	420.6
47.5°	397.4	399.8	400.6	400.5	400.6	399.8	397.4	396.2	394.0	392.1	391.9
50°	378.4	377.5	378.9	378.4	378.9	377.5	378.4	376.0	372.7	372.7	371.8
52.5°	355.3	355.5	355.4	354.9	355.4	355.5	355.3	354.1	352.7	351.2	350.5
55°	319.7	320.1	319.1	319.7	319.1	320.1	319.7	319.1	319.1	318.3	319.1
57.5°	281.0	278.7	279.6	278.5	279.6	278.7	281.0	283.0	283.8	284.0	285.4
60°	253.2	249.4	248.5	246.6	248.5	249.4	253.2	258.0	259.8	260.8	262.3
62.5°	222.1	219.5	216.2	217.8	216.2	219.5	222.1	227.3	231.4	234.7	238.0
65°	180.7	178.8	177.4	179.2	177.4	178.8	180.7	184.5	188.2	195.8	203.0
67.5°	149.5	148.6	148.6	147.6	148.6	148.6	149.5	151.5	153.8	158.0	164.7
70°	133.2	131.9	131.9	130.9	131.9	131.9	133.2	133.2	135.6	137.5	142.3
72.5°	116.5	115.1	115.6	114.9	115.6	115.1	116.5	117.0	119.3	120.1	122.2
75°	86.3	83.9	83.9	84.4	83.9	83.9	86.3	89.2	91.5	95.8	96.8
77.5°	64.4	63.9	64.6	63.8	64.6	63.9	64.4	64.4	64.9	66.9	68.5
80°	52.6	52.2	51.7	53.1	51.7	52.2	52.6	52.6	53.1	53.6	54.0
82.5°	40.8	40.8	40.7	42.5	40.7	40.8	40.8	41.6	41.7	41.5	41.9
85°	24.7	23.7	24.7	23.7	24.7	23.7	24.7	24.2	24.7	24.2	24.7
87.5°	16.4	16.1	15.9	16.4	15.9	16.1	16.4	15.5	15.3	15.7	15.0
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2
92.5°	58.6	58.9	59.3	59.7	59.3	58.9	58.6	58.2	57.5	56.4	55.4
95°	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	105.8	104.9	104.0
97.5°	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	165.9	164.9	163.8
100°	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.1	207.5	206.9
102.5°	255.0	255.3	255.5	255.7	255.5	255.3	255.0	254.8	254.2	253.4	252.5
105°	325.4	326.3	327.2	328.1	327.2	326.3	325.4	324.5	323.6	322.7	321.8
107.5°	398.7	398.7	398.6	398.5	398.6	398.7	398.7	398.8	398.4	397.5	396.7
110°	446.4	447.3	448.2	449.1	448.2	447.3	446.4	445.5	445.3	445.9	446.6



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	500.2	500.3	500.5	500.7	500.5	500.3	500.2	500.0	500.0	500.1	500.2
115°	581.8	581.5	581.1	580.9	581.1	581.5	581.8	582.0	582.4	582.6	582.9
117.5°	659.0	658.4	657.8	657.2	657.8	658.4	659.0	659.6	660.4	661.5	662.5
120°	713.5	714.1	714.7	715.3	714.7	714.1	713.5	712.9	713.4	714.9	716.3
122.5°	767.0	765.9	764.8	763.8	764.8	765.9	767.0	768.0	769.1	770.1	771.1
125°	848.8	848.3	847.7	847.0	847.7	848.3	848.8	849.4	850.1	850.7	851.2
127.5°	925.7	925.2	924.7	924.3	924.7	925.2	925.7	926.1	926.7	927.3	927.9
130°	978.4	977.2	976.0	974.8	976.0	977.2	978.4	979.5	980.4	981.1	981.7
132.5°	1030.0	1029.6	1029.0	1028.6	1029.0	1029.6	1030.0	1030.5	1031.0	1031.6	1032.2
135°	1105.2	1104.3	1103.4	1102.5	1103.4	1104.3	1105.2	1106.1	1106.9	1107.5	1108.0
137.5°	1179.7	1179.9	1180.1	1180.3	1180.1	1179.9	1179.7	1179.6	1179.8	1180.6	1181.4
140°	1228.5	1228.2	1227.9	1227.6	1227.9	1228.2	1228.5	1228.8	1229.0	1229.4	1229.7
142.5°	1275.1	1275.1	1275.0	1274.9	1275.0	1275.1	1275.1	1275.1	1275.2	1275.2	1275.3
145°	1341.8	1341.0	1340.1	1339.2	1340.1	1341.0	1341.8	1342.7	1343.4	1343.6	1344.0
147.5°	1405.2	1404.9	1404.5	1404.3	1404.5	1404.9	1405.2	1405.4	1405.7	1406.0	1406.2
150°	1444.9	1444.7	1444.4	1444.0	1444.4	1444.7	1444.9	1445.3	1445.4	1445.4	1445.4
152.5°	1482.9	1482.2	1481.4	1480.6	1481.4	1482.2	1482.9	1483.7	1483.7	1483.0	1482.3
155°	1535.0	1533.8	1532.7	1531.4	1532.7	1533.8	1535.0	1536.2	1536.2	1535.0	1533.8
157.5°	1579.9	1579.0	1577.9	1576.9	1577.9	1579.0	1579.9	1580.9	1581.0	1580.1	1579.2
160°	1607.2	1605.7	1604.2	1602.7	1604.2	1605.7	1607.2	1608.6	1609.0	1608.1	1607.2
162.5°	1634.1	1632.6	1631.1	1629.6	1631.1	1632.6	1634.1	1635.6	1635.5	1633.9	1632.3
165°	1668.1	1667.0	1665.7	1664.6	1665.7	1667.0	1668.1	1669.4	1669.0	1667.2	1665.4
167.5°	1695.1	1693.3	1691.4	1689.5	1691.4	1693.3	1695.1	1697.0	1697.0	1695.2	1693.4
170°	1709.9	1707.7	1705.7	1703.5	1705.7	1707.7	1709.9	1711.9	1712.1	1710.3	1708.5
172.5°	1721.6	1719.6	1717.4	1715.4	1717.4	1719.6	1721.6	1723.8	1723.8	1721.7	1719.8
175°	1734.0	1732.0	1729.8	1727.8	1729.8	1732.0	1734.0	1736.2	1736.2	1734.0	1732.0
177.5°	1739.9	1738.0	1736.2	1734.2	1736.2	1738.0	1739.9	1741.9	1742.0	1740.3	1738.7
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1125.9	1128.5	1134.6	1141.4	1147.1	1152.0	1155.8	1161.1	1166.1	1172.9	1179.4
5°	1057.6	1064.2	1073.7	1085.0	1099.3	1108.8	1120.6	1131.0	1146.2	1161.5	1176.2
7.5°	997.6	1005.0	1018.9	1034.7	1051.5	1067.0	1081.1	1099.5	1119.6	1141.7	1166.4
10°	958.9	967.0	983.6	1001.6	1021.5	1036.7	1055.7	1077.5	1100.3	1127.3	1157.6
12.5°	924.0	931.7	951.7	970.1	990.8	1007.5	1029.5	1051.7	1082.0	1111.3	1145.8
15°	856.0	876.4	899.2	921.0	945.7	966.1	992.6	1015.4	1044.3	1085.6	1124.9
17.5°	780.5	802.3	830.5	864.2	897.2	922.5	949.4	977.7	1012.1	1054.3	1099.7
20°	736.5	754.0	785.3	822.8	861.2	896.3	921.0	952.3	987.8	1033.4	1080.3
22.5°	703.5	718.4	742.9	780.3	821.8	862.6	894.0	925.0	964.3	1009.9	1061.0
25°	654.0	670.1	691.4	717.0	764.5	807.6	848.9	884.5	926.2	971.7	1028.7
27.5°	612.8	626.9	646.4	673.1	704.9	752.5	802.5	843.1	885.9	934.8	991.8
30°	588.5	599.9	616.1	643.1	673.4	716.1	766.9	814.3	857.5	908.2	967.4
32.5°	563.1	575.2	591.0	612.3	645.0	680.8	731.6	783.5	829.4	881.3	939.4
35°	529.2	538.8	552.9	574.8	604.2	635.5	680.6	734.1	782.5	838.0	893.5
37.5°	495.0	506.2	517.4	536.8	561.0	594.6	631.5	686.3	739.9	790.5	844.6
40°	475.6	482.3	494.6	510.3	535.9	565.8	600.4	654.0	707.6	757.9	812.3
42.5°	454.1	461.5	471.9	487.5	510.5	539.6	573.5	619.8	675.7	724.4	774.1
45°	424.0	428.2	438.6	451.9	470.9	500.3	531.6	572.9	625.5	672.0	715.6
47.5°	393.6	397.3	403.9	416.0	437.3	460.8	490.2	527.2	573.4	619.8	656.7
50°	372.7	376.0	382.3	393.6	412.6	435.9	464.8	497.9	539.2	583.8	614.7
52.5°	351.9	353.7	359.4	372.4	388.3	411.2	437.0	467.6	506.2	543.2	574.4
55°	318.7	323.0	326.7	336.3	351.4	373.3	396.5	425.4	455.3	486.6	513.1
57.5°	284.1	288.7	294.3	302.6	314.6	334.9	355.8	379.2	404.7	430.7	453.0
60°	261.3	265.6	270.3	279.8	290.7	306.8	329.6	350.0	369.4	393.2	415.4
62.5°	238.9	243.2	248.7	256.3	266.8	282.1	301.1	318.9	339.1	359.8	376.4
65°	205.8	209.1	213.4	220.5	230.5	244.2	259.8	273.7	291.7	306.8	322.0
67.5°	169.5	175.8	181.5	187.3	195.6	208.5	219.8	232.9	245.2	256.5	270.3
70°	145.6	152.8	157.9	164.1	172.2	183.1	193.9	203.0	212.9	223.8	236.2
72.5°	125.5	131.1	135.2	141.7	149.0	159.2	169.3	176.8	184.9	192.3	204.3
75°	99.2	101.5	104.3	109.6	116.2	123.8	131.9	138.5	143.2	149.9	158.4
77.5°	71.2	75.8	77.7	81.4	86.1	90.9	96.2	101.7	106.3	108.7	115.2
80°	54.6	56.4	58.3	63.6	66.4	71.2	74.9	80.2	82.0	84.4	90.6
82.5°	42.4	43.5	44.7	46.1	47.8	52.5	56.4	59.7	61.5	62.4	67.1
85°	24.7	25.1	25.6	26.1	26.6	26.6	28.4	30.9	34.2	34.2	35.6
87.5°	14.6	14.6	14.2	13.3	13.6	13.1	12.9	12.3	12.8	13.2	13.7
90°	31.4	29.6	27.2	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0
92.5°	54.3	53.2	51.5	49.9	48.2	46.5	43.9	40.0	36.3	32.5	28.8
95°	103.1	102.2	100.1	98.0	95.9	93.8	91.4	88.7	86.1	83.4	80.7
97.5°	162.6	161.6	159.2	156.7	154.3	151.9	149.5	147.4	145.2	143.0	140.9
100°	206.3	205.7	203.0	200.4	197.7	194.9	193.1	191.8	190.6	189.4	188.2
102.5°	251.7	250.9	248.4	246.0	243.5	241.1	239.6	239.2	238.7	238.2	237.7
105°	320.9	320.0	318.8	317.6	316.4	315.2	314.5	314.1	313.9	313.6	313.3
107.5°	395.8	395.0	394.8	394.7	394.5	394.3	394.0	393.7	393.3	393.0	392.6
110°	447.1	447.7	448.0	448.4	448.6	449.0	448.8	448.2	447.5	447.0	446.4



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	500.3	500.4	501.0	501.5	502.0	502.6	502.8	502.7	502.6	502.5	502.3
115°	583.3	583.5	584.2	584.7	585.3	585.9	586.2	586.2	586.2	586.2	586.2
117.5°	663.4	664.5	664.9	665.3	665.8	666.2	666.3	666.0	665.8	665.5	665.3
120°	717.8	719.3	720.2	721.1	722.0	722.9	722.7	721.6	720.4	719.2	718.0
122.5°	772.1	773.1	773.6	773.9	774.4	774.8	774.7	774.3	773.8	773.3	772.8
125°	851.9	852.5	852.7	853.0	853.4	853.6	853.8	853.8	853.8	853.8	853.8
127.5°	928.4	929.1	929.6	930.1	930.5	931.0	930.8	929.9	929.0	928.1	927.2
130°	982.3	982.8	982.8	982.8	982.8	982.8	982.4	981.5	980.6	979.7	978.8
132.5°	1032.9	1033.4	1033.7	1033.9	1034.1	1034.4	1034.2	1033.5	1032.9	1032.2	1031.5
135°	1108.7	1109.3	1109.3	1109.3	1109.3	1109.3	1108.4	1106.6	1104.7	1103.0	1101.2
137.5°	1182.1	1182.9	1182.5	1182.0	1181.5	1181.1	1180.4	1179.6	1178.7	1177.9	1177.1
140°	1229.9	1230.3	1230.3	1230.3	1230.3	1230.3	1229.9	1229.4	1228.8	1228.2	1227.6
142.5°	1275.4	1275.4	1275.7	1275.9	1276.1	1276.4	1276.2	1275.6	1275.1	1274.4	1273.8
145°	1344.3	1344.5	1344.3	1344.0	1343.6	1343.4	1342.6	1341.4	1340.2	1339.0	1337.8
147.5°	1406.4	1406.7	1406.9	1407.1	1407.4	1407.7	1407.0	1405.6	1404.2	1402.8	1401.3
150°	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1444.8	1443.6	1442.4	1441.2	1440.0
152.5°	1481.6	1480.9	1480.7	1480.4	1480.2	1480.0	1479.4	1478.7	1478.0	1477.3	1476.6
155°	1532.7	1531.4	1531.8	1532.0	1532.3	1532.7	1532.8	1532.8	1532.8	1532.8	1532.8
157.5°	1578.3	1577.4	1577.5	1577.5	1577.6	1577.7	1578.0	1578.5	1579.0	1579.6	1580.1
160°	1606.3	1605.4	1605.7	1606.0	1606.3	1606.6	1606.9	1607.2	1607.5	1607.8	1608.1
162.5°	1630.7	1629.1	1629.3	1629.7	1630.0	1630.2	1630.8	1631.6	1632.4	1633.2	1633.9
165°	1663.7	1661.9	1662.5	1663.0	1663.7	1664.3	1665.0	1665.9	1666.8	1667.7	1668.6
167.5°	1691.7	1689.9	1689.8	1689.7	1689.7	1689.6	1690.2	1691.5	1692.7	1694.0	1695.2
170°	1706.6	1704.9	1704.6	1704.3	1704.0	1703.7	1704.3	1705.8	1707.3	1708.8	1710.3
172.5°	1717.7	1715.7	1715.6	1715.6	1715.5	1715.4	1716.0	1717.3	1718.5	1719.8	1721.0
175°	1729.8	1727.8	1728.0	1728.3	1728.7	1728.9	1729.8	1731.3	1732.9	1734.3	1735.8
177.5°	1737.0	1735.3	1735.3	1735.3	1735.3	1735.3	1735.9	1737.1	1738.3	1739.5	1740.6
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1184.3	1187.7	1191.5	1198.7	1204.8	1207.5	1212.7	1216.6	1215.4	1220.7	1229.8
5°	1188.9	1201.8	1216.5	1231.6	1248.7	1262.9	1274.3	1285.7	1294.7	1305.6	1321.7
7.5°	1188.2	1210.9	1235.7	1262.9	1290.9	1315.1	1337.5	1360.2	1380.5	1402.6	1431.5
10°	1185.2	1215.5	1246.3	1281.9	1317.4	1351.1	1381.4	1410.0	1437.0	1465.9	1502.4
12.5°	1181.7	1216.7	1253.9	1296.6	1341.0	1381.4	1417.1	1458.1	1492.0	1529.3	1571.5
15°	1166.6	1213.6	1264.4	1319.8	1373.0	1427.5	1476.3	1526.6	1573.5	1618.1	1671.2
17.5°	1149.4	1203.5	1263.4	1328.9	1392.8	1459.0	1517.0	1580.4	1628.4	1688.2	1737.5
20°	1135.3	1193.6	1257.7	1331.2	1403.7	1477.3	1541.3	1605.8	1659.8	1720.1	1782.7
22.5°	1118.3	1182.3	1251.6	1327.8	1403.7	1484.1	1555.0	1619.1	1686.0	1753.8	1818.4
25°	1090.7	1157.2	1230.7	1314.1	1401.4	1483.5	1559.3	1639.0	1711.1	1784.6	1842.5
27.5°	1057.0	1126.7	1204.2	1290.3	1379.8	1463.9	1553.3	1638.2	1710.7	1781.5	1831.9
30°	1030.0	1103.6	1178.0	1265.2	1358.3	1448.3	1544.2	1629.1	1705.4	1769.0	1797.4
32.5°	1002.4	1072.1	1148.8	1237.2	1332.4	1429.4	1524.4	1611.2	1681.9	1720.0	1720.7
35°	954.2	1019.6	1099.3	1186.1	1283.8	1389.1	1485.3	1570.7	1613.8	1617.2	1570.7
37.5°	901.6	961.7	1036.9	1123.7	1230.7	1335.5	1433.9	1490.8	1505.1	1456.9	1370.9
40°	864.1	919.5	992.1	1081.3	1187.5	1295.7	1385.3	1427.0	1411.8	1333.6	1237.8
42.5°	824.7	876.3	946.2	1034.2	1140.9	1250.1	1326.4	1348.9	1308.7	1218.3	1106.2
45°	760.2	807.6	876.9	965.5	1068.0	1170.5	1228.3	1216.9	1150.0	1042.9	917.2
47.5°	693.1	739.0	801.3	883.3	988.2	1076.7	1115.8	1081.5	986.3	868.4	766.2
50°	648.8	695.7	753.1	831.3	927.1	1012.5	1037.7	985.5	879.8	766.3	672.4
52.5°	605.1	645.2	701.5	777.1	868.7	940.8	954.2	894.0	784.9	683.3	600.0
55°	538.8	575.2	622.7	693.8	773.0	834.2	827.1	749.8	650.7	563.9	498.5
57.5°	474.6	502.0	545.8	612.5	682.1	723.1	697.1	631.2	538.9	467.8	412.6
60°	432.0	457.6	498.5	556.8	618.0	641.1	619.4	547.8	474.7	409.7	363.3
62.5°	391.8	414.4	449.5	503.6	553.0	566.9	543.5	481.0	415.2	359.6	321.2
65°	333.4	354.3	384.1	422.6	456.7	463.3	448.2	384.1	334.3	287.8	261.3
67.5°	280.4	294.0	317.4	350.5	368.7	372.6	343.2	303.0	259.1	230.6	210.5
70°	244.7	254.2	276.0	294.0	308.7	309.2	282.1	249.9	216.2	193.1	178.3
72.5°	210.2	219.3	235.8	248.2	259.4	255.7	231.0	205.5	178.3	160.8	149.9
75°	162.2	170.2	178.8	184.5	184.5	179.8	161.8	142.8	127.1	116.6	113.3
77.5°	117.9	124.6	127.4	126.5	124.8	117.4	106.0	93.6	88.0	83.1	80.6
80°	92.5	95.3	96.3	93.9	91.0	82.5	74.9	69.7	64.5	62.6	61.6
82.5°	68.6	71.1	68.6	69.2	63.0	56.0	51.8	50.0	47.8	47.1	46.1
85°	36.6	36.0	35.1	32.7	28.4	27.5	27.0	26.6	25.6	26.1	25.1
87.5°	14.0	13.5	12.7	12.9	13.5	13.2	14.1	14.5	15.0	15.0	16.1
90°	7.3	10.6	13.9	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2
92.5°	32.5	36.3	40.0	43.9	46.5	48.2	49.9	51.5	53.2	54.3	55.4
95°	83.4	86.1	88.7	91.4	93.8	95.9	98.0	100.1	102.2	103.1	104.0
97.5°	143.0	145.2	147.4	149.5	151.9	154.3	156.7	159.2	161.6	162.6	163.8
100°	189.4	190.6	191.8	193.1	194.9	197.7	200.4	203.0	205.7	206.3	206.9
102.5°	238.2	238.7	239.2	239.6	241.1	243.5	246.0	248.4	250.9	251.7	252.5
105°	313.6	313.9	314.1	314.5	315.2	316.4	317.6	318.8	320.0	320.9	321.8
107.5°	393.0	393.3	393.7	394.0	394.3	394.5	394.7	394.8	395.0	395.8	396.7
110°	447.0	447.5	448.2	448.8	449.0	448.6	448.4	448.0	447.7	447.1	446.6



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	502.5	502.6	502.7	502.8	502.6	502.0	501.5	501.0	500.4	500.3	500.2
115°	586.2	586.2	586.2	586.2	585.9	585.3	584.7	584.2	583.5	583.3	582.9
117.5°	665.5	665.8	666.0	666.3	666.2	665.8	665.3	664.9	664.5	663.4	662.5
120°	719.2	720.4	721.6	722.7	722.9	722.0	721.1	720.2	719.3	717.8	716.3
122.5°	773.3	773.8	774.3	774.7	774.8	774.4	773.9	773.6	773.1	772.1	771.1
125°	853.8	853.8	853.8	853.8	853.6	853.4	853.0	852.7	852.5	851.9	851.2
127.5°	928.1	929.0	929.9	930.8	931.0	930.5	930.1	929.6	929.1	928.4	927.9
130°	979.7	980.6	981.5	982.4	982.8	982.8	982.8	982.8	982.8	982.3	981.7
132.5°	1032.2	1032.9	1033.5	1034.2	1034.4	1034.1	1033.9	1033.7	1033.4	1032.9	1032.2
135°	1103.0	1104.7	1106.6	1108.4	1109.3	1109.3	1109.3	1109.3	1109.3	1108.7	1108.0
137.5°	1177.9	1178.7	1179.6	1180.4	1181.1	1181.5	1182.0	1182.5	1182.9	1182.1	1181.4
140°	1228.2	1228.8	1229.4	1229.9	1230.3	1230.3	1230.3	1230.3	1230.3	1229.9	1229.7
142.5°	1274.4	1275.1	1275.6	1276.2	1276.4	1276.1	1275.9	1275.7	1275.4	1275.4	1275.3
145°	1339.0	1340.2	1341.4	1342.6	1343.4	1343.6	1344.0	1344.3	1344.5	1344.3	1344.0
147.5°	1402.8	1404.2	1405.6	1407.0	1407.7	1407.4	1407.1	1406.9	1406.7	1406.4	1406.2
150°	1441.2	1442.4	1443.6	1444.8	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
152.5°	1477.3	1478.0	1478.7	1479.4	1480.0	1480.2	1480.4	1480.7	1480.9	1481.6	1482.3
155°	1532.8	1532.8	1532.8	1532.8	1532.7	1532.3	1532.0	1531.8	1531.4	1532.7	1533.8
157.5°	1579.6	1579.0	1578.5	1578.0	1577.7	1577.6	1577.5	1577.5	1577.4	1578.3	1579.2
160°	1607.8	1607.5	1607.2	1606.9	1606.6	1606.3	1606.0	1605.7	1605.4	1606.3	1607.2
162.5°	1633.2	1632.4	1631.6	1630.8	1630.2	1630.0	1629.7	1629.3	1629.1	1630.7	1632.3
165°	1667.7	1666.8	1665.9	1665.0	1664.3	1663.7	1663.0	1662.5	1661.9	1663.7	1665.4
167.5°	1694.0	1692.7	1691.5	1690.2	1689.6	1689.7	1689.7	1689.8	1689.9	1691.7	1693.4
170°	1708.8	1707.3	1705.8	1704.3	1703.7	1704.0	1704.3	1704.6	1704.9	1706.6	1708.5
172.5°	1719.8	1718.5	1717.3	1716.0	1715.4	1715.5	1715.6	1715.6	1715.7	1717.7	1719.8
175°	1734.3	1732.9	1731.3	1729.8	1728.9	1728.7	1728.3	1728.0	1727.8	1729.8	1732.0
177.5°	1739.5	1738.3	1737.1	1735.9	1735.3	1735.3	1735.3	1735.3	1735.3	1737.0	1738.7
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1234.8	1236.3	1237.4	1241.2	1241.5	1245.0	1241.5
5°	1336.9	1343.5	1354.0	1364.4	1365.4	1372.0	1360.1
7.5°	1451.4	1466.9	1476.4	1493.3	1499.9	1504.1	1497.3
10°	1530.4	1544.6	1569.8	1582.1	1594.4	1596.3	1590.6
12.5°	1606.7	1629.2	1649.0	1672.4	1671.8	1688.5	1682.4
15°	1708.3	1731.4	1759.0	1785.0	1794.6	1794.6	1802.1
17.5°	1780.7	1823.3	1851.7	1872.2	1894.6	1898.5	1895.9
20°	1829.6	1875.6	1906.0	1932.5	1947.8	1952.0	1952.0
22.5°	1866.1	1905.2	1934.8	1958.7	1971.2	1976.3	1974.8
25°	1891.3	1924.9	1942.9	1950.1	1953.4	1952.5	1943.5
27.5°	1856.7	1855.2	1843.9	1822.0	1805.6	1795.6	1784.3
30°	1790.7	1766.1	1737.7	1706.3	1666.0	1635.2	1625.7
32.5°	1692.5	1637.1	1588.9	1536.8	1493.4	1462.6	1449.7
35°	1502.4	1414.7	1343.1	1280.5	1234.9	1206.5	1197.0
37.5°	1276.8	1191.9	1103.3	1042.6	1004.9	976.1	965.4
40°	1133.5	1041.0	963.7	906.8	867.9	839.9	839.5
42.5°	1002.6	914.3	841.5	800.5	758.6	740.1	740.0
45°	820.9	750.3	688.6	656.4	631.2	616.1	611.8
47.5°	679.7	621.3	580.1	554.5	534.0	524.3	518.1
50°	600.4	549.2	516.5	494.2	482.8	470.5	469.5
52.5°	534.4	493.0	467.5	449.4	435.0	427.6	427.8
55°	449.1	416.4	398.3	384.6	373.3	367.6	365.2
57.5°	378.4	353.8	340.7	328.1	323.2	318.8	317.5
60°	334.3	317.7	305.4	295.4	288.4	287.0	286.4
62.5°	297.9	280.5	272.1	264.3	259.1	256.9	256.1
65°	245.7	232.8	225.2	219.1	217.2	213.9	213.4
67.5°	198.0	190.4	185.3	181.1	178.5	178.3	178.3
70°	168.8	164.5	160.3	157.9	156.5	155.5	155.5
72.5°	143.8	140.6	137.1	135.9	135.6	134.6	134.3
75°	109.6	106.2	106.7	104.3	102.5	100.0	98.6
77.5°	77.7	75.3	74.8	74.5	72.9	72.7	73.4
80°	60.2	57.9	57.4	57.9	57.4	56.0	56.0
82.5°	45.8	43.8	43.3	43.1	42.6	43.1	42.3
85°	24.7	23.7	23.7	23.7	24.7	24.2	23.7
87.5°	15.7	15.7	16.3	16.1	16.1	15.9	16.4
90°	35.0	36.7	38.0	38.5	39.1	39.8	40.3
92.5°	56.4	57.5	58.2	58.6	58.9	59.3	59.7
95°	104.9	105.8	106.2	106.2	106.2	106.2	106.2
97.5°	164.9	165.9	166.5	166.5	166.5	166.5	166.5
100°	207.5	208.1	208.4	208.4	208.4	208.4	208.4
102.5°	253.4	254.2	254.8	255.0	255.3	255.5	255.7
105°	322.7	323.6	324.5	325.4	326.3	327.2	328.1
107.5°	397.5	398.4	398.8	398.7	398.7	398.6	398.5
110°	445.9	445.3	445.5	446.4	447.3	448.2	449.1



TEST NUMBER: P333072-940

CATALOG NUMBER: S124RDIW-S795D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	500.1	500.0	500.0	500.2	500.3	500.5	500.7
115°	582.6	582.4	582.0	581.8	581.5	581.1	580.9
117.5°	661.5	660.4	659.6	659.0	658.4	657.8	657.2
120°	714.9	713.4	712.9	713.5	714.1	714.7	715.3
122.5°	770.1	769.1	768.0	767.0	765.9	764.8	763.8
125°	850.7	850.1	849.4	848.8	848.3	847.7	847.0
127.5°	927.3	926.7	926.1	925.7	925.2	924.7	924.3
130°	981.1	980.4	979.5	978.4	977.2	976.0	974.8
132.5°	1031.6	1031.0	1030.5	1030.0	1029.6	1029.0	1028.6
135°	1107.5	1106.9	1106.1	1105.2	1104.3	1103.4	1102.5
137.5°	1180.6	1179.8	1179.6	1179.7	1179.9	1180.1	1180.3
140°	1229.4	1229.0	1228.8	1228.5	1228.2	1227.9	1227.6
142.5°	1275.2	1275.2	1275.1	1275.1	1275.1	1275.0	1274.9
145°	1343.6	1343.4	1342.7	1341.8	1341.0	1340.1	1339.2
147.5°	1406.0	1405.7	1405.4	1405.2	1404.9	1404.5	1404.3
150°	1445.4	1445.4	1445.3	1444.9	1444.7	1444.4	1444.0
152.5°	1483.0	1483.7	1483.7	1482.9	1482.2	1481.4	1480.6
155°	1535.0	1536.2	1536.2	1535.0	1533.8	1532.7	1531.4
157.5°	1580.1	1581.0	1580.9	1579.9	1579.0	1577.9	1576.9
160°	1608.1	1609.0	1608.6	1607.2	1605.7	1604.2	1602.7
162.5°	1633.9	1635.5	1635.6	1634.1	1632.6	1631.1	1629.6
165°	1667.2	1669.0	1669.4	1668.1	1667.0	1665.7	1664.6
167.5°	1695.2	1697.0	1697.0	1695.1	1693.3	1691.4	1689.5
170°	1710.3	1712.1	1711.9	1709.9	1707.7	1705.7	1703.5
172.5°	1721.7	1723.8	1723.8	1721.6	1719.6	1717.4	1715.4
175°	1734.0	1736.2	1736.2	1734.0	1732.0	1729.8	1727.8
177.5°	1740.3	1742.0	1741.9	1739.9	1738.0	1736.2	1734.2
180°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5

(END OF REPORT)