

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: P332860-940

Luminaire Tested: **S124DIW-S1195D1560U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332860-940
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: S124DIW-S1195D1560U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9570.4 lumens
Efficiency: N/A
Efficacy: 115.4 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

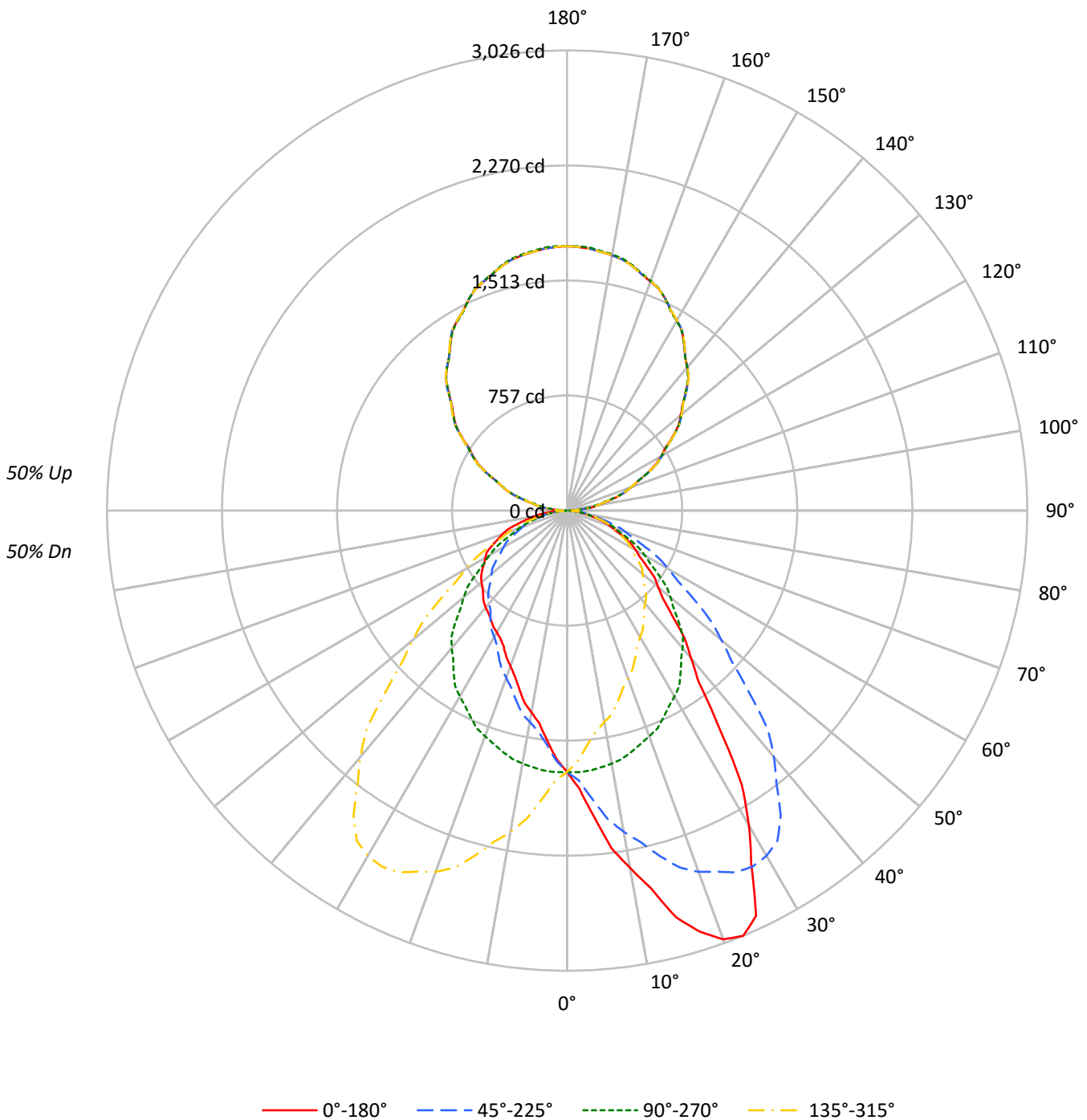
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

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	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	48	47	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	30				
4	75	64	56	50	69	59	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	35	31	35	30	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	32	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	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°	13875	13875	13875	13875
5°	16339	13910	12277	13910
10°	19563	13849	11053	13849
15°	23147	13709	10151	13709
20°	25775	13566	9346	13566
25°	26191	13356	8790	13356
30°	22287	13154	8614	13154
35°	17134	12827	8615	12827
40°	13355	12440	8778	12440
45°	11136	11860	8926	11860
50°	9800	11150	9229	11150
55°	8978	10301	9600	10301
60°	8414	9541	10046	9541
65°	7834	8692	10418	8692
70°	7159	7848	10655	7848
75°	6394	6906	10524	6906
80°	5360	5658	10195	5658
85°	3955	4085	9763	4085



TEST NUMBER: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.7
10°-20°	516.1	5.4
20°-30°	818.4	8.6
30°-40°	910.7	9.5
40°-50°	829.0	8.7
50°-60°	677.5	7.1
60°-70°	483.6	5.1
70°-80°	266.3	2.8
80°-90°	77.9	0.8
90°-100°	114.7	1.2
100°-110°	339.7	3.5
110°-120°	576.5	6.0
120°-130°	760.2	7.9
130°-140°	853.8	8.9
140°-150°	839.0	8.8
150°-160°	705.6	7.4
160°-170°	469.5	4.9
170°-180°	164.4	1.7
0°-30°	1501.9	15.7
0°-40°	2412.6	25.2
0°-60°	3919.1	41.0
0°-90°	4747.0	49.6
90°-120°	1030.9	10.8
90°-150°	3483.9	36.4
90°-180°	4823.0	50.4
0°-180°	9570.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1719	1719	1719	1719	1719	
5°	2016	1716	1515	1716	2016	205
15°	2770	1640	1215	1640	2770	782
25°	2940	1499	987	1499	2940	1296
35°	1739	1302	874	1302	1739	1104
45°	975	1039	782	1039	975	768
55°	638	732	682	732	638	576
65°	410	455	545	455	410	406
75°	205	221	337	221	205	218
85°	43	44	105	44	43	53
90°	40	4	40	4	40	22
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1829.2	1828.5	1822.9	1821.8	1817.8	1812.7	1811.5	1802.4	1784.1	1775.6	1773.3
5°	2016.2	2030.5	2012.0	2008.4	2006.3	1982.8	1970.7	1956.4	1923.7	1904.5	1889.5
7.5°	2239.5	2241.2	2233.1	2226.6	2208.5	2188.0	2157.2	2124.5	2085.4	2044.9	2014.3
10°	2386.5	2392.2	2382.9	2381.5	2345.2	2322.4	2276.8	2238.4	2194.2	2145.1	2100.2
12.5°	2541.4	2533.4	2528.7	2498.2	2491.5	2450.0	2397.0	2357.4	2289.4	2232.8	2173.2
15°	2769.5	2753.9	2743.9	2701.9	2681.2	2623.5	2567.3	2523.9	2434.9	2350.2	2286.1
17.5°	2903.3	2919.0	2895.9	2878.7	2825.3	2784.9	2727.4	2636.3	2566.6	2461.4	2380.5
20°	3000.2	3001.6	2988.7	2971.0	2929.0	2877.7	2815.0	2715.3	2632.1	2527.5	2416.4
22.5°	3026.4	3026.6	3021.2	3004.6	2972.8	2931.2	2868.0	2784.9	2684.0	2570.2	2459.1
25°	2940.3	2937.5	2943.9	2962.4	2950.3	2937.5	2901.2	2839.3	2745.3	2624.9	2505.4
27.5°	2620.8	2640.4	2676.6	2722.2	2766.1	2799.5	2809.0	2796.2	2738.0	2639.1	2513.7
30°	2390.8	2414.9	2442.0	2487.5	2575.9	2626.4	2681.9	2723.9	2700.5	2621.5	2504.6
32.5°	2137.9	2143.9	2184.0	2235.8	2316.7	2414.0	2502.0	2587.2	2615.6	2574.1	2476.7
35°	1738.6	1748.6	1792.0	1843.3	1942.2	2061.1	2193.5	2311.7	2409.2	2448.4	2398.5
37.5°	1418.8	1447.4	1478.0	1533.1	1620.2	1727.3	1864.9	2017.9	2163.2	2260.6	2277.1
40°	1267.3	1285.0	1307.2	1349.2	1423.2	1528.6	1646.7	1821.9	1976.4	2115.9	2161.5
42.5°	1147.6	1158.1	1171.6	1209.6	1266.0	1370.8	1478.7	1632.8	1787.9	1954.7	2031.0
45°	975.4	986.1	1008.8	1030.9	1073.6	1146.2	1246.6	1373.3	1529.3	1690.1	1831.1
47.5°	851.0	857.7	871.3	894.9	931.2	979.1	1060.8	1166.6	1311.2	1467.3	1617.6
50°	780.3	786.0	796.7	818.1	845.8	888.5	955.5	1054.4	1167.6	1324.9	1472.3
52.5°	724.5	726.7	734.6	749.1	771.2	807.1	862.0	943.9	1049.1	1189.4	1336.2
55°	637.9	640.8	647.9	658.5	677.8	700.5	742.5	803.8	895.6	1017.4	1144.8
57.5°	566.7	568.7	574.7	578.8	594.6	613.1	645.4	689.2	758.8	862.0	975.8
60°	521.1	519.7	526.8	530.4	541.1	556.8	581.7	623.7	684.2	767.5	872.2
62.5°	476.7	474.7	480.7	485.4	491.5	504.9	525.3	558.2	607.3	682.6	773.0
65°	410.1	407.2	410.8	416.5	422.2	429.3	444.3	473.4	512.6	566.7	635.8
67.5°	343.1	346.2	346.7	349.6	352.8	362.6	372.7	393.4	421.1	464.3	522.9
70°	303.3	304.0	306.8	306.8	309.0	317.5	326.1	338.1	365.2	405.1	452.8
72.5°	263.4	266.4	265.3	267.5	269.1	274.8	281.1	292.6	315.7	345.3	385.6
75°	205.0	207.1	207.1	207.9	210.0	212.1	217.1	225.7	242.1	264.1	291.9
77.5°	149.5	149.8	150.8	153.4	153.4	156.8	160.5	167.3	175.4	190.6	207.5
80°	115.3	116.7	116.0	117.4	117.4	120.3	121.7	130.3	133.8	143.8	157.3
82.5°	84.6	86.0	85.9	87.8	89.0	89.5	91.6	95.0	98.5	107.4	112.9
85°	42.7	44.1	42.7	44.1	46.3	47.0	49.1	49.8	52.7	54.8	59.8
87.5°	20.6	22.2	22.0	22.6	23.5	23.9	24.1	23.2	25.1	25.3	27.1
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1773.9	1765.9	1760.2	1755.7	1743.1	1735.7	1730.0	1722.1	1713.0	1703.3	1691.3
5°	1874.6	1850.4	1832.6	1805.5	1779.9	1758.5	1736.4	1716.5	1692.3	1666.0	1646.7
7.5°	1980.4	1944.4	1898.2	1858.2	1813.2	1774.1	1739.0	1703.2	1665.8	1629.7	1596.5
10°	2047.5	2001.3	1950.0	1889.5	1832.6	1782.0	1735.0	1689.4	1645.3	1601.2	1563.4
12.5°	2120.0	2062.3	1986.5	1915.8	1851.9	1784.3	1727.6	1671.8	1618.5	1572.2	1528.1
15°	2217.1	2133.7	2046.1	1951.4	1867.4	1788.4	1710.8	1640.3	1580.6	1519.3	1476.6
17.5°	2276.7	2173.6	2073.5	1974.5	1872.9	1773.2	1689.4	1608.2	1533.3	1472.5	1418.6
20°	2316.0	2213.5	2088.8	1989.9	1868.8	1766.4	1669.6	1579.1	1500.8	1436.0	1380.5
22.5°	2350.2	2231.7	2107.1	1976.8	1856.4	1747.6	1641.6	1550.6	1470.6	1402.4	1349.2
25°	2368.7	2232.7	2097.4	1967.8	1831.1	1702.3	1606.1	1499.4	1413.9	1342.0	1285.0
27.5°	2370.7	2225.3	2072.2	1928.2	1787.2	1667.1	1545.8	1450.4	1361.6	1285.7	1231.0
30°	2364.4	2212.8	2048.3	1892.4	1750.7	1620.4	1515.0	1411.1	1320.7	1245.2	1188.2
32.5°	2344.5	2186.6	2017.5	1852.5	1705.7	1578.2	1469.5	1370.6	1282.5	1208.2	1148.3
35°	2286.8	2130.8	1950.7	1779.1	1629.0	1500.1	1401.9	1301.5	1213.2	1142.7	1085.0
37.5°	2196.6	2055.7	1872.6	1695.1	1547.5	1418.1	1320.7	1229.9	1150.4	1078.8	1019.7
40°	2118.1	1994.2	1810.5	1637.4	1478.0	1354.9	1263.7	1180.4	1101.4	1033.8	977.5
42.5°	2027.5	1919.6	1750.2	1566.8	1413.1	1289.3	1200.5	1125.7	1051.2	988.7	932.6
45°	1866.0	1794.8	1635.4	1465.9	1305.7	1188.9	1104.2	1038.8	976.1	914.9	867.9
47.5°	1680.3	1645.0	1510.7	1349.9	1197.7	1082.7	1009.2	948.8	893.8	842.0	800.5
50°	1555.6	1538.6	1422.5	1267.3	1122.0	1013.8	939.8	887.8	840.8	795.2	756.1
52.5°	1432.6	1432.0	1327.4	1185.3	1050.9	946.6	873.2	824.6	783.9	746.8	711.7
55°	1244.5	1264.4	1182.6	1055.8	935.5	841.5	775.3	731.9	703.4	672.8	646.5
57.5°	1071.7	1104.8	1037.3	925.7	825.3	738.7	681.1	648.5	618.1	599.6	580.4
60°	959.0	990.3	937.6	843.6	748.9	674.9	620.1	590.9	564.5	551.8	538.2
62.5°	858.7	886.6	847.7	760.5	678.3	607.2	560.9	532.8	515.1	501.1	492.1
65°	715.5	739.0	705.5	642.2	571.7	514.8	477.0	455.0	437.8	432.1	422.2
67.5°	578.4	599.8	581.7	527.8	471.3	428.2	398.7	377.5	367.4	362.4	355.3
70°	497.0	518.3	499.1	452.1	408.7	372.4	344.6	332.5	321.8	319.7	309.7
72.5°	428.0	442.6	423.3	386.6	349.5	318.8	297.3	284.6	279.1	275.3	269.8
75°	321.1	333.9	321.1	292.6	266.3	245.0	226.4	221.4	215.0	212.9	209.3
77.5°	227.3	238.4	228.5	210.7	191.1	174.6	164.6	158.2	156.8	153.1	154.8
80°	173.7	180.8	171.6	159.4	143.8	132.4	125.3	121.7	117.4	116.0	118.9
82.5°	124.8	127.9	123.1	115.0	103.3	95.9	91.1	87.0	86.1	86.4	86.4
85°	64.8	64.1	63.4	56.3	52.7	47.7	44.9	44.1	43.4	44.9	46.3
87.5°	26.6	26.7	25.7	22.8	20.4	18.1	16.9	15.6	16.9	18.1	19.3
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1685.6	1680.5	1673.1	1662.9	1654.3	1645.2	1642.9	1639.5	1646.3	1640.7	1638.9
5°	1630.4	1615.4	1596.2	1574.1	1561.3	1542.8	1539.3	1532.1	1525.0	1524.3	1517.2
7.5°	1571.8	1549.9	1524.7	1502.2	1481.4	1461.2	1448.0	1445.1	1434.6	1428.4	1421.3
10°	1534.3	1507.2	1478.0	1456.7	1432.4	1411.1	1396.2	1387.6	1380.5	1372.6	1365.6
12.5°	1489.9	1461.1	1437.0	1413.9	1385.2	1369.0	1344.3	1329.5	1328.1	1328.2	1309.7
15°	1438.2	1409.7	1372.6	1339.9	1324.2	1292.9	1279.3	1262.3	1251.6	1240.9	1232.4
17.5°	1379.0	1343.6	1314.6	1277.1	1247.2	1222.3	1204.5	1194.3	1178.1	1163.1	1152.1
20°	1342.0	1304.3	1273.7	1233.8	1201.0	1170.5	1155.5	1141.3	1129.2	1116.3	1104.2
22.5°	1304.4	1265.0	1227.5	1188.8	1158.3	1126.1	1111.6	1092.3	1080.8	1073.6	1061.5
25°	1245.2	1202.5	1159.8	1122.8	1091.5	1062.9	1043.7	1028.8	1015.9	1010.2	1002.5
27.5°	1180.8	1138.4	1097.2	1055.1	1019.5	998.9	983.5	972.2	964.8	957.3	953.8
30°	1139.9	1095.7	1051.6	1012.4	979.6	959.0	944.8	936.9	931.2	927.6	924.1
32.5°	1098.2	1054.7	1008.3	972.5	943.2	924.8	914.0	906.2	903.3	902.1	900.8
35°	1031.6	987.5	944.8	912.8	884.9	877.8	868.6	864.3	862.9	867.9	870.0
37.5°	967.1	926.1	886.8	855.8	837.6	827.2	824.0	824.1	829.3	833.7	838.8
40°	925.5	885.6	848.6	821.6	804.5	798.1	796.7	800.2	805.9	810.9	816.6
42.5°	885.1	845.8	812.2	786.8	774.9	769.0	769.9	773.5	781.4	787.6	796.1
45°	822.3	789.5	756.8	736.2	726.2	727.6	727.6	734.1	741.8	751.1	760.4
47.5°	763.2	730.2	703.3	685.9	680.7	679.5	683.5	691.9	703.1	714.5	727.5
50°	723.4	692.1	668.5	652.8	647.2	649.3	655.0	662.8	676.4	690.6	704.1
52.5°	682.9	654.4	632.7	618.1	614.1	618.0	623.7	636.1	647.9	663.3	679.7
55°	620.1	595.9	578.8	568.1	566.7	568.8	575.2	588.8	605.8	625.1	640.8
57.5°	557.6	537.3	521.7	514.3	515.1	517.0	527.5	543.7	561.9	582.4	602.6
60°	515.4	497.0	484.1	478.4	479.1	483.4	496.2	511.2	534.0	553.9	575.2
62.5°	475.5	459.3	447.1	442.0	441.0	450.4	462.6	478.1	501.0	523.2	546.2
65°	411.5	398.7	388.7	385.8	388.0	395.1	410.8	431.4	450.7	474.1	498.4
67.5°	348.8	338.3	331.4	332.8	335.4	345.9	359.0	376.7	398.6	422.9	446.8
70°	309.0	299.0	293.3	294.0	298.3	311.1	322.5	340.3	363.8	388.7	408.7
72.5°	268.0	261.4	256.3	259.3	263.6	272.4	286.6	304.4	325.1	348.3	369.3
75°	205.7	205.7	202.9	205.0	211.4	220.0	230.7	249.1	269.8	288.4	305.4
77.5°	152.7	151.1	152.9	155.5	159.2	169.3	181.6	194.7	210.4	228.8	242.9
80°	116.7	117.4	121.0	125.3	126.7	134.6	147.4	159.4	171.6	187.3	200.8
82.5°	87.7	88.5	90.2	95.7	97.1	105.5	113.8	125.9	136.9	147.4	158.6
85°	47.7	47.7	51.3	53.4	57.0	62.7	67.6	74.7	84.7	91.8	102.5
87.5°	21.7	22.2	25.0	26.6	28.8	32.1	33.6	40.2	42.9	46.1	51.5
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1637.8	1636.6	1632.6	1632.1	1632.6	1636.6	1637.8	1638.9	1640.7	1646.3	1639.5
5°	1512.9	1509.3	1507.2	1515.0	1507.2	1509.3	1512.9	1517.2	1524.3	1525.0	1532.1
7.5°	1418.8	1415.9	1409.7	1407.7	1409.7	1415.9	1418.8	1421.3	1428.4	1434.6	1445.1
10°	1358.4	1355.6	1349.9	1348.4	1349.9	1355.6	1358.4	1365.6	1372.6	1380.5	1387.6
12.5°	1300.3	1294.6	1293.5	1294.9	1293.5	1294.6	1300.3	1309.7	1328.2	1328.1	1329.5
15°	1223.2	1220.3	1212.5	1214.6	1212.5	1220.3	1223.2	1232.4	1240.9	1251.6	1262.3
17.5°	1147.1	1143.7	1134.2	1142.5	1134.2	1143.7	1147.1	1152.1	1163.1	1178.1	1194.3
20°	1099.2	1093.6	1088.6	1087.9	1088.6	1093.6	1099.2	1104.2	1116.3	1129.2	1141.3
22.5°	1053.6	1048.6	1048.1	1043.5	1048.1	1048.6	1053.6	1061.5	1073.6	1080.8	1092.3
25°	996.8	991.8	990.3	986.8	990.3	991.8	996.8	1002.5	1010.2	1015.9	1028.8
27.5°	953.1	950.6	948.1	949.1	948.1	950.6	953.1	953.8	957.3	964.8	972.2
30°	926.2	925.5	924.1	924.1	924.1	925.5	926.2	924.1	927.6	931.2	936.9
32.5°	904.0	903.9	904.7	904.7	904.7	903.9	904.0	900.8	902.1	903.3	906.2
35°	872.9	874.9	876.4	874.2	876.4	874.9	872.9	870.0	867.9	862.9	864.3
37.5°	844.6	846.8	848.8	851.2	848.8	846.8	844.6	838.8	833.7	829.3	824.1
40°	823.0	828.0	829.4	832.9	829.4	828.0	823.0	816.6	810.9	805.9	800.2
42.5°	802.5	808.1	811.7	812.4	811.7	808.1	802.5	796.1	787.6	781.4	773.5
45°	771.1	776.8	781.8	781.8	781.8	776.8	771.1	760.4	751.1	741.8	734.1
47.5°	738.4	746.7	751.7	753.0	751.7	746.7	738.4	727.5	714.5	703.1	691.9
50°	716.2	726.2	731.2	734.8	731.2	726.2	716.2	704.1	690.6	676.4	662.8
52.5°	694.6	704.5	711.2	713.1	711.2	704.5	694.6	679.7	663.3	647.9	636.1
55°	657.1	671.4	679.2	682.1	679.2	671.4	657.1	640.8	625.1	605.8	588.8
57.5°	621.8	634.9	644.0	646.1	644.0	634.9	621.8	602.6	582.4	561.9	543.7
60°	594.5	608.7	620.1	622.2	620.1	608.7	594.5	575.2	553.9	534.0	511.2
62.5°	566.6	581.4	591.7	597.2	591.7	581.4	566.6	546.2	523.2	501.0	478.1
65°	518.3	533.2	543.2	545.4	543.2	533.2	518.3	498.4	474.1	450.7	431.4
67.5°	465.7	480.5	487.1	491.2	487.1	480.5	465.7	446.8	422.9	398.6	376.7
70°	428.6	440.7	447.8	451.4	447.8	440.7	428.6	408.7	388.7	363.8	340.3
72.5°	386.5	399.1	407.4	408.0	407.4	399.1	386.5	369.3	348.3	325.1	304.4
75°	321.8	333.2	337.4	337.4	337.4	333.2	321.8	305.4	288.4	269.8	249.1
77.5°	254.8	260.6	266.0	267.2	266.0	260.6	254.8	242.9	228.8	210.4	194.7
80°	211.4	215.0	219.3	219.3	219.3	215.0	211.4	200.8	187.3	171.6	159.4
82.5°	167.0	170.0	174.3	173.7	174.3	170.0	167.0	158.6	147.4	136.9	125.9
85°	101.1	107.5	106.8	105.4	106.8	107.5	101.1	102.5	91.8	84.7	74.7
87.5°	53.2	53.9	55.8	57.1	55.8	53.9	53.2	51.5	46.1	42.9	40.2
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1642.9	1645.2	1654.3	1662.9	1673.1	1680.5	1685.6	1691.3	1703.3	1713.0	1722.1
5°	1539.3	1542.8	1561.3	1574.1	1596.2	1615.4	1630.4	1646.7	1666.0	1692.3	1716.5
7.5°	1448.0	1461.2	1481.4	1502.2	1524.7	1549.9	1571.8	1596.5	1629.7	1665.8	1703.2
10°	1396.2	1411.1	1432.4	1456.7	1478.0	1507.2	1534.3	1563.4	1601.2	1645.3	1689.4
12.5°	1344.3	1369.0	1385.2	1413.9	1437.0	1461.1	1489.9	1528.1	1572.2	1618.5	1671.8
15°	1279.3	1292.9	1324.2	1339.9	1372.6	1409.7	1438.2	1476.6	1519.3	1580.6	1640.3
17.5°	1204.5	1222.3	1247.2	1277.1	1314.6	1343.6	1379.0	1418.6	1472.5	1533.3	1608.2
20°	1155.5	1170.5	1201.0	1233.8	1273.7	1304.3	1342.0	1380.5	1436.0	1500.8	1579.1
22.5°	1111.6	1126.1	1158.3	1188.8	1227.5	1265.0	1304.4	1349.2	1402.4	1470.6	1550.6
25°	1043.7	1062.9	1091.5	1122.8	1159.8	1202.5	1245.2	1285.0	1342.0	1413.9	1499.4
27.5°	983.5	998.9	1019.5	1055.1	1097.2	1138.4	1180.8	1231.0	1285.7	1361.6	1450.4
30°	944.8	959.0	979.6	1012.4	1051.6	1095.7	1139.9	1188.2	1245.2	1320.7	1411.1
32.5°	914.0	924.8	943.2	972.5	1008.3	1054.7	1098.2	1148.3	1208.2	1282.5	1370.6
35°	868.6	877.8	884.9	912.8	944.8	987.5	1031.6	1085.0	1142.7	1213.2	1301.5
37.5°	824.0	827.2	837.6	855.8	886.8	926.1	967.1	1019.7	1078.8	1150.4	1229.9
40°	796.7	798.1	804.5	821.6	848.6	885.6	925.5	977.5	1033.8	1101.4	1180.4
42.5°	769.9	769.0	774.9	786.8	812.2	845.8	885.1	932.6	988.7	1051.2	1125.7
45°	727.6	727.6	726.2	736.2	756.8	789.5	822.3	867.9	914.9	976.1	1038.8
47.5°	683.5	679.5	680.7	685.9	703.3	730.2	763.2	800.5	842.0	893.8	948.8
50°	655.0	649.3	647.2	652.8	668.5	692.1	723.4	756.1	795.2	840.8	887.8
52.5°	623.7	618.0	614.1	618.1	632.7	654.4	682.9	711.7	746.8	783.9	824.6
55°	575.2	568.8	566.7	568.1	578.8	595.9	620.1	646.5	672.8	703.4	731.9
57.5°	527.5	517.0	515.1	514.3	521.7	537.3	557.6	580.4	599.6	618.1	648.5
60°	496.2	483.4	479.1	478.4	484.1	497.0	515.4	538.2	551.8	564.5	590.9
62.5°	462.6	450.4	441.0	442.0	447.1	459.3	475.5	492.1	501.1	515.1	532.8
65°	410.8	395.1	388.0	385.8	388.7	398.7	411.5	422.2	432.1	437.8	455.0
67.5°	359.0	345.9	335.4	332.8	331.4	338.3	348.8	355.3	362.4	367.4	377.5
70°	322.5	311.1	298.3	294.0	293.3	299.0	309.0	309.7	319.7	321.8	332.5
72.5°	286.6	272.4	263.6	259.3	256.3	261.4	268.0	269.8	275.3	279.1	284.6
75°	230.7	220.0	211.4	205.0	202.9	205.7	205.7	209.3	212.9	215.0	221.4
77.5°	181.6	169.3	159.2	155.5	152.9	151.1	152.7	154.8	153.1	156.8	158.2
80°	147.4	134.6	126.7	125.3	121.0	117.4	116.7	118.9	116.0	117.4	121.7
82.5°	113.8	105.5	97.1	95.7	90.2	88.5	87.7	86.4	86.4	86.1	87.0
85°	67.6	62.7	57.0	53.4	51.3	47.7	47.7	46.3	44.9	43.4	44.1
87.5°	33.6	32.1	28.8	26.6	25.0	22.2	21.7	19.3	18.1	16.9	15.6
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1730.0	1735.7	1743.1	1755.7	1760.2	1765.9	1773.9	1773.3	1775.6	1784.1	1802.4
5°	1736.4	1758.5	1779.9	1805.5	1832.6	1850.4	1874.6	1889.5	1904.5	1923.7	1956.4
7.5°	1739.0	1774.1	1813.2	1858.2	1898.2	1944.4	1980.4	2014.3	2044.9	2085.4	2124.5
10°	1735.0	1782.0	1832.6	1889.5	1950.0	2001.3	2047.5	2100.2	2145.1	2194.2	2238.4
12.5°	1727.6	1784.3	1851.9	1915.8	1986.5	2062.3	2120.0	2173.2	2232.8	2289.4	2357.4
15°	1710.8	1788.4	1867.4	1951.4	2046.1	2133.7	2217.1	2286.1	2350.2	2434.9	2523.9
17.5°	1689.4	1773.2	1872.9	1974.5	2073.5	2173.6	2276.7	2380.5	2461.4	2566.6	2636.3
20°	1669.6	1766.4	1868.8	1989.9	2088.8	2213.5	2316.0	2416.4	2527.5	2632.1	2715.3
22.5°	1641.6	1747.6	1856.4	1976.8	2107.1	2231.7	2350.2	2459.1	2570.2	2684.0	2784.9
25°	1606.1	1702.3	1831.1	1967.8	2097.4	2232.7	2368.7	2505.4	2624.9	2745.3	2839.3
27.5°	1545.8	1667.1	1787.2	1928.2	2072.2	2225.3	2370.7	2513.7	2639.1	2738.0	2796.2
30°	1515.0	1620.4	1750.7	1892.4	2048.3	2212.8	2364.4	2504.6	2621.5	2700.5	2723.9
32.5°	1469.5	1578.2	1705.7	1852.5	2017.5	2186.6	2344.5	2476.7	2574.1	2615.6	2587.2
35°	1401.9	1500.1	1629.0	1779.1	1950.7	2130.8	2286.8	2398.5	2448.4	2409.2	2311.7
37.5°	1320.7	1418.1	1547.5	1695.1	1872.6	2055.7	2196.6	2277.1	2260.6	2163.2	2017.9
40°	1263.7	1354.9	1478.0	1637.4	1810.5	1994.2	2118.1	2161.5	2115.9	1976.4	1821.9
42.5°	1200.5	1289.3	1413.1	1566.8	1750.2	1919.6	2027.5	2031.0	1954.7	1787.9	1632.8
45°	1104.2	1188.9	1305.7	1465.9	1635.4	1794.8	1866.0	1831.1	1690.1	1529.3	1373.3
47.5°	1009.2	1082.7	1197.7	1349.9	1510.7	1645.0	1680.3	1617.6	1467.3	1311.2	1166.6
50°	939.8	1013.8	1122.0	1267.3	1422.5	1538.6	1555.6	1472.3	1324.9	1167.6	1054.4
52.5°	873.2	946.6	1050.9	1185.3	1327.4	1432.0	1432.6	1336.2	1189.4	1049.1	943.9
55°	775.3	841.5	935.5	1055.8	1182.6	1264.4	1244.5	1144.8	1017.4	895.6	803.8
57.5°	681.1	738.7	825.3	925.7	1037.3	1104.8	1071.7	975.8	862.0	758.8	689.2
60°	620.1	674.9	748.9	843.6	937.6	990.3	959.0	872.2	767.5	684.2	623.7
62.5°	560.9	607.2	678.3	760.5	847.7	886.6	858.7	773.0	682.6	607.3	558.2
65°	477.0	514.8	571.7	642.2	705.5	739.0	715.5	635.8	566.7	512.6	473.4
67.5°	398.7	428.2	471.3	527.8	581.7	599.8	578.4	522.9	464.3	421.1	393.4
70°	344.6	372.4	408.7	452.1	499.1	518.3	497.0	452.8	405.1	365.2	338.1
72.5°	297.3	318.8	349.5	386.6	423.3	442.6	428.0	385.6	345.3	315.7	292.6
75°	226.4	245.0	266.3	292.6	321.1	333.9	321.1	291.9	264.1	242.1	225.7
77.5°	164.6	174.6	191.1	210.7	228.5	238.4	227.3	207.5	190.6	175.4	167.3
80°	125.3	132.4	143.8	159.4	171.6	180.8	173.7	157.3	143.8	133.8	130.3
82.5°	91.1	95.9	103.3	115.0	123.1	127.9	124.8	112.9	107.4	98.5	95.0
85°	44.9	47.7	52.7	56.3	63.4	64.1	64.8	59.8	54.8	52.7	49.8
87.5°	16.9	18.1	20.4	22.8	25.7	26.7	26.6	27.1	25.3	25.1	23.2
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1811.5	1812.7	1817.8	1821.8	1822.9	1828.5	1829.2
5°	1970.7	1982.8	2006.3	2008.4	2012.0	2030.5	2016.2
7.5°	2157.2	2188.0	2208.5	2226.6	2233.1	2241.2	2239.5
10°	2276.8	2322.4	2345.2	2381.5	2382.9	2392.2	2386.5
12.5°	2397.0	2450.0	2491.5	2498.2	2528.7	2533.4	2541.4
15°	2567.3	2623.5	2681.2	2701.9	2743.9	2753.9	2769.5
17.5°	2727.4	2784.9	2825.3	2878.7	2895.9	2919.0	2903.3
20°	2815.0	2877.7	2929.0	2971.0	2988.7	3001.6	3000.2
22.5°	2868.0	2931.2	2972.8	3004.6	3021.2	3026.6	3026.4
25°	2901.2	2937.5	2950.3	2962.4	2943.9	2937.5	2940.3
27.5°	2809.0	2799.5	2766.1	2722.2	2676.6	2640.4	2620.8
30°	2681.9	2626.4	2575.9	2487.5	2442.0	2414.9	2390.8
32.5°	2502.0	2414.0	2316.7	2235.8	2184.0	2143.9	2137.9
35°	2193.5	2061.1	1942.2	1843.3	1792.0	1748.6	1738.6
37.5°	1864.9	1727.3	1620.2	1533.1	1478.0	1447.4	1418.8
40°	1646.7	1528.6	1423.2	1349.2	1307.2	1285.0	1267.3
42.5°	1478.7	1370.8	1266.0	1209.6	1171.6	1158.1	1147.6
45°	1246.6	1146.2	1073.6	1030.9	1008.8	986.1	975.4
47.5°	1060.8	979.1	931.2	894.9	871.3	857.7	851.0
50°	955.5	888.5	845.8	818.1	796.7	786.0	780.3
52.5°	862.0	807.1	771.2	749.1	734.6	726.7	724.5
55°	742.5	700.5	677.8	658.5	647.9	640.8	637.9
57.5°	645.4	613.1	594.6	578.8	574.7	568.7	566.7
60°	581.7	556.8	541.1	530.4	526.8	519.7	521.1
62.5°	525.3	504.9	491.5	485.4	480.7	474.7	476.7
65°	444.3	429.3	422.2	416.5	410.8	407.2	410.1
67.5°	372.7	362.6	352.8	349.6	346.7	346.2	343.1
70°	326.1	317.5	309.0	306.8	306.8	304.0	303.3
72.5°	281.1	274.8	269.1	267.5	265.3	266.4	263.4
75°	217.1	212.1	210.0	207.9	207.1	207.1	205.0
77.5°	160.5	156.8	153.4	153.4	150.8	149.8	149.5
80°	121.7	120.3	117.4	117.4	116.0	116.7	115.3
82.5°	91.6	89.5	89.0	87.8	85.9	86.0	84.6
85°	49.1	47.0	46.3	44.1	42.7	44.1	42.7
87.5°	24.1	23.9	23.5	22.6	22.0	22.2	20.6
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: P332860-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-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)