

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: P333112-930

Luminaire Tested: **S124RDIW-S1195D1560U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333112-930  
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-S1195D1560U930-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

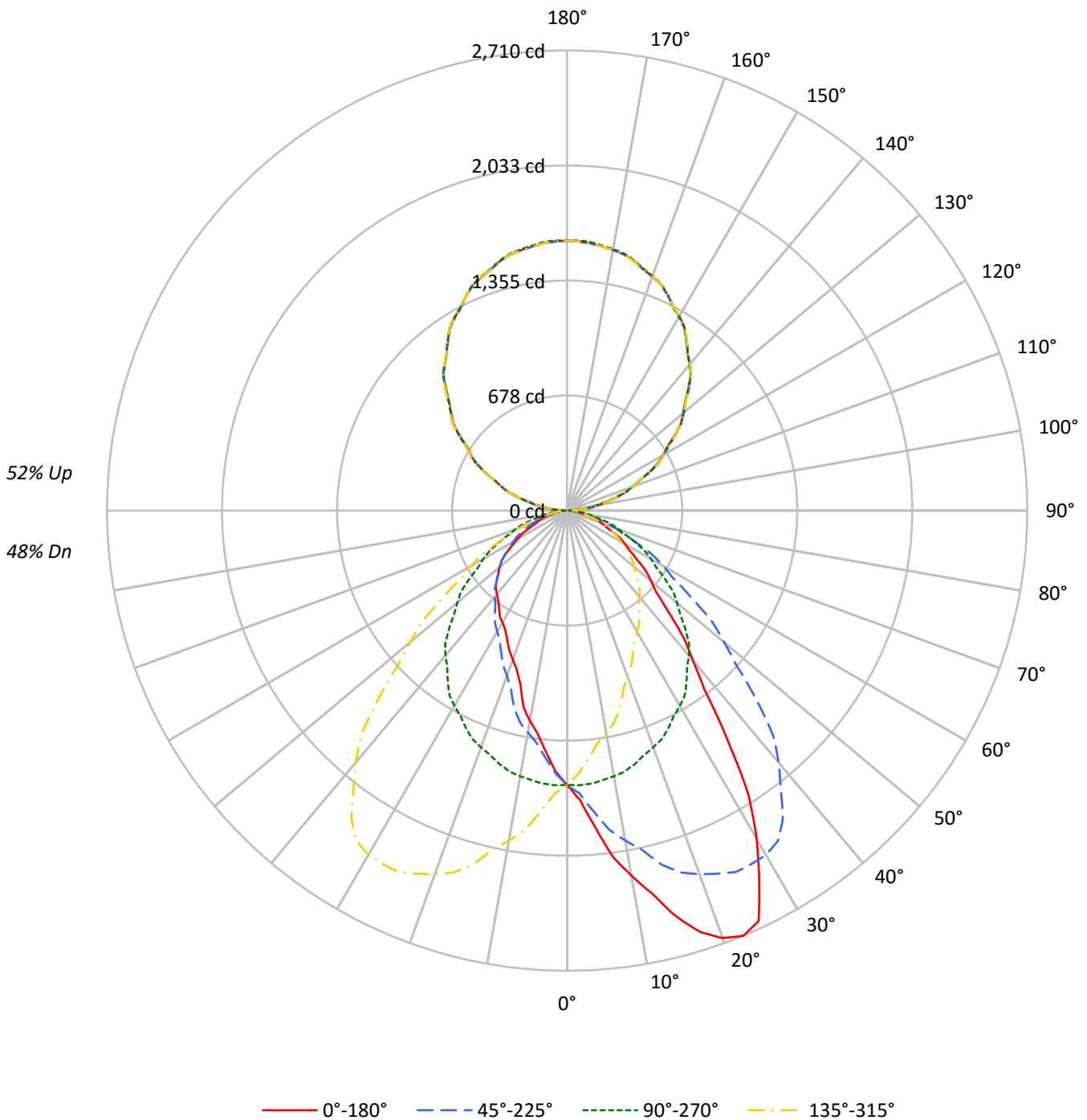
Lumens per Lamp: N/A  
Luminaire Lumens: 8498.7 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (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



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	86	83	80	73	71	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	67	64	61	57	53	51	49	43	42	40	35
3	82	73	66	60	75	67	61	56	57	52	49	48	44	42	39	37	35	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	58	50	44	63	54	47	41	46	40	36	38	34	31	32	29	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	13043	13043	13043	13043
5°	15129	13083	11563	13083
10°	17898	13025	10320	13025
15°	20674	12904	8868	12904
20°	23018	12740	8019	12740
25°	23762	12577	7445	12577
30°	20801	12379	7100	12379
35°	16192	12086	6890	12086
40°	12142	11751	6777	11751
45°	9587	11215	6719	11215
50°	8093	10595	6523	10595
55°	7054	9913	6175	9913
60°	6347	9206	5465	9206
65°	5595	8443	4701	8443
70°	5039	7652	4242	7652
75°	4223	6781	3615	6781
80°	3570	5779	3389	5779
85°	3010	4520	3010	4520



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CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	1.8
10°-20°	472.2	5.6
20°-30°	738.6	8.7
30°-40°	821.0	9.7
40°-50°	728.5	8.6
50°-60°	567.6	6.7
60°-70°	371.6	4.4
70°-80°	182.8	2.2
80°-90°	49.8	0.6
90°-100°	104.8	1.2
100°-110°	310.6	3.7
110°-120°	527.1	6.2
120°-130°	695.1	8.2
130°-140°	780.6	9.2
140°-150°	767.1	9.0
150°-160°	645.2	7.6
160°-170°	429.2	5.1
170°-180°	150.3	1.8
0°-30°	1367.3	16.1
0°-40°	2188.4	25.7
0°-60°	3484.5	41.0
0°-90°	4088.7	48.1
90°-120°	942.5	11.1
90°-150°	3185.3	37.5
90°-180°	4410.0	51.9
0°-180°	8498.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1616	1616	1616	1616	1616	
5°	1867	1614	1427	1614	1867	189
15°	2474	1544	1061	1544	2474	703
25°	2668	1412	836	1412	2668	1183
35°	1643	1226	699	1226	1643	1030
45°	840	982	588	982	840	665
55°	501	704	439	704	501	456
65°	293	442	246	442	293	295
75°	135	217	116	217	135	149
85°	32	49	32	49	32	38
90°	37	4	37	4	37	20
95°	97	74	97	74	97	101
105°	300	286	300	286	300	316
115°	531	536	531	536	531	525
125°	774	781	774	781	774	691
135°	1008	1007	1008	1007	1008	778
145°	1224	1223	1224	1223	1224	766
155°	1400	1401	1400	1401	1400	645
165°	1522	1526	1522	1526	1522	429
175°	1580	1587	1580	1587	1580	150
180°	1590	1590	1590	1590	1590	



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1704.1	1708.9	1704.1	1703.6	1698.4	1696.9	1694.8	1688.0	1675.5	1668.3	1669.8
5°	1866.9	1883.2	1874.0	1872.7	1858.5	1844.1	1835.0	1814.2	1792.0	1777.1	1764.7
7.5°	2055.1	2064.5	2058.8	2049.7	2026.5	2013.4	1992.3	1964.8	1925.1	1894.8	1867.0
10°	2183.3	2191.0	2188.5	2171.5	2154.6	2120.1	2100.6	2062.2	2012.1	1972.4	1935.3
12.5°	2309.3	2317.7	2294.7	2295.5	2263.4	2236.3	2205.3	2157.0	2099.1	2047.9	2001.4
15°	2473.6	2463.2	2463.2	2450.1	2414.3	2376.6	2344.7	2293.9	2221.0	2159.8	2095.4
17.5°	2602.2	2605.9	2600.5	2569.8	2541.7	2502.6	2444.2	2384.9	2317.2	2235.1	2169.2
20°	2679.3	2679.3	2673.4	2652.6	2616.1	2574.5	2511.4	2446.9	2360.9	2278.3	2204.1
22.5°	2710.5	2712.6	2705.7	2688.5	2655.8	2615.1	2561.3	2495.9	2407.3	2314.2	2222.3
25°	2667.6	2680.0	2681.2	2676.7	2666.9	2642.1	2596.0	2528.9	2449.5	2348.6	2249.7
27.5°	2449.1	2464.7	2478.4	2500.9	2530.9	2546.5	2548.5	2514.5	2445.2	2348.1	2248.5
30°	2231.4	2244.4	2286.8	2342.1	2385.1	2424.1	2458.0	2467.1	2428.0	2340.8	2236.0
32.5°	1989.8	2007.5	2049.8	2109.3	2180.9	2247.0	2323.1	2361.8	2360.9	2308.5	2211.5
35°	1643.0	1656.0	1695.1	1757.5	1843.5	1941.8	2062.2	2155.9	2219.7	2215.2	2155.9
37.5°	1325.0	1339.8	1379.2	1431.0	1514.3	1636.1	1752.6	1881.7	1999.7	2066.0	2046.2
40°	1152.2	1152.8	1191.2	1244.6	1322.7	1428.8	1555.8	1698.9	1830.4	1937.9	1958.7
42.5°	1015.7	1015.9	1041.2	1098.8	1155.0	1254.9	1376.1	1518.3	1672.2	1796.2	1851.4
45°	839.7	845.5	866.4	900.9	945.2	1029.8	1126.7	1258.9	1431.4	1578.5	1670.3
47.5°	711.1	719.7	733.0	761.1	796.4	852.7	932.9	1051.7	1192.0	1353.8	1484.4
50°	644.4	645.7	662.7	678.2	708.9	753.8	824.1	923.0	1051.9	1207.5	1352.7
52.5°	587.2	586.9	597.0	616.9	641.7	676.7	733.4	823.5	937.8	1077.3	1227.2
55°	501.2	504.5	512.3	527.9	546.8	571.5	616.4	684.1	774.0	893.1	1029.2
57.5°	435.9	437.6	443.7	450.3	467.7	485.6	519.3	566.3	642.1	739.6	866.4
60°	393.1	393.8	395.7	405.5	419.2	436.1	458.9	498.6	562.4	651.6	751.9
62.5°	351.5	352.7	355.7	362.8	373.4	385.1	409.0	440.8	493.7	569.8	660.1
65°	292.9	293.6	298.2	300.8	309.2	319.6	337.2	358.7	395.1	458.9	527.3
67.5°	244.8	244.8	245.0	248.5	254.4	261.3	271.8	289.0	316.5	355.7	416.0
70°	213.5	213.5	214.8	216.8	220.0	225.8	231.7	244.8	265.0	296.9	343.1
72.5°	184.3	184.8	186.1	186.5	188.3	193.1	197.4	205.7	220.7	244.8	282.1
75°	135.4	137.4	140.6	143.2	146.4	145.8	150.3	155.6	160.1	174.5	195.9
77.5°	100.8	99.7	100.1	102.3	102.7	103.4	106.6	110.6	114.1	120.8	128.5
80°	76.8	76.8	78.8	79.4	78.8	79.4	82.7	84.6	85.9	88.5	95.7
82.5°	58.0	59.1	58.5	59.1	59.5	60.2	62.9	63.3	64.6	65.6	68.6
85°	32.5	33.2	33.8	32.5	32.5	32.5	33.8	34.5	35.8	35.1	36.4
87.5°	18.8	18.2	18.6	18.5	18.9	18.2	18.3	19.1	17.7	17.9	17.4
90°	36.9	36.4	35.8	35.2	34.7	33.6	32.0	30.3	28.7	27.1	24.9
92.5°	54.5	54.2	53.9	53.6	53.2	52.6	51.6	50.6	49.7	48.7	47.1
95°	97.1	97.1	97.1	97.1	97.1	96.7	95.9	95.1	94.2	93.4	91.6
97.5°	152.2	152.2	152.2	152.2	152.2	151.7	150.7	149.8	148.7	147.7	145.5
100°	190.5	190.5	190.5	190.5	190.5	190.3	189.7	189.1	188.7	188.1	185.6
102.5°	233.8	233.6	233.4	233.2	232.9	232.4	231.7	230.9	230.2	229.4	227.1
105°	299.9	299.1	298.3	297.5	296.7	295.9	295.1	294.2	293.4	292.6	291.5
107.5°	364.4	364.4	364.5	364.5	364.6	364.3	363.5	362.7	361.9	361.2	361.0
110°	410.6	409.8	409.0	408.1	407.3	407.2	407.7	408.3	408.8	409.4	409.6



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	457.8	457.6	457.5	457.3	457.1	457.1	457.2	457.3	457.5	457.5	458.0
115°	531.1	531.3	531.7	531.9	532.1	532.5	532.7	533.0	533.3	533.5	534.1
117.5°	600.9	601.4	602.0	602.5	603.1	603.8	604.8	605.7	606.6	607.6	607.9
120°	654.0	653.5	652.9	652.4	651.8	652.2	653.6	654.9	656.3	657.7	658.5
122.5°	698.3	699.3	700.3	701.2	702.2	703.2	704.1	705.0	706.0	706.9	707.3
125°	774.5	775.0	775.6	776.1	776.7	777.2	777.8	778.3	778.9	779.4	779.7
127.5°	845.1	845.5	846.0	846.4	846.8	847.3	847.8	848.4	848.9	849.5	849.9
130°	891.3	892.3	893.5	894.5	895.6	896.4	897.0	897.6	898.1	898.6	898.6
132.5°	940.4	940.9	941.3	941.8	942.2	942.6	943.2	943.8	944.4	944.9	945.1
135°	1008.0	1008.9	1009.7	1010.5	1011.3	1012.0	1012.6	1013.1	1013.7	1014.2	1014.2
137.5°	1079.1	1079.0	1078.8	1078.6	1078.5	1078.7	1079.5	1080.2	1080.8	1081.6	1081.2
140°	1122.4	1122.7	1122.9	1123.2	1123.5	1123.7	1124.1	1124.3	1124.5	1124.9	1124.9
142.5°	1165.6	1165.7	1165.8	1165.8	1165.9	1166.0	1166.0	1166.0	1166.1	1166.1	1166.4
145°	1224.4	1225.2	1226.0	1226.9	1227.7	1228.2	1228.5	1228.8	1229.1	1229.3	1229.1
147.5°	1283.9	1284.2	1284.5	1284.7	1285.0	1285.2	1285.5	1285.7	1285.9	1286.1	1286.4
150°	1320.3	1320.6	1320.9	1321.1	1321.4	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5
152.5°	1353.7	1354.5	1355.2	1355.8	1356.6	1356.6	1355.9	1355.3	1354.6	1354.0	1353.8
155°	1400.2	1401.3	1402.4	1403.5	1404.6	1404.6	1403.5	1402.4	1401.3	1400.2	1400.5
157.5°	1441.8	1442.7	1443.7	1444.5	1445.4	1445.5	1444.7	1443.9	1443.1	1442.3	1442.3
160°	1465.3	1466.7	1468.1	1469.5	1470.8	1471.1	1470.3	1469.5	1468.7	1467.9	1468.1
162.5°	1490.0	1491.3	1492.7	1494.0	1495.4	1495.3	1493.9	1492.4	1490.9	1489.5	1489.7
165°	1521.9	1523.0	1524.1	1525.2	1526.3	1526.0	1524.4	1522.7	1521.1	1519.5	1520.0
167.5°	1544.7	1546.5	1548.2	1549.9	1551.6	1551.6	1550.0	1548.3	1546.7	1545.1	1545.0
170°	1557.5	1559.5	1561.4	1563.3	1565.2	1565.4	1563.7	1562.1	1560.4	1558.8	1558.5
172.5°	1568.4	1570.3	1572.2	1574.1	1576.1	1576.1	1574.2	1572.4	1570.5	1568.6	1568.6
175°	1579.7	1581.6	1583.6	1585.4	1587.4	1587.4	1585.4	1583.6	1581.6	1579.7	1580.0
177.5°	1585.6	1587.4	1589.1	1590.8	1592.6	1592.7	1591.1	1589.7	1588.1	1586.6	1586.6
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1664.6	1657.3	1653.7	1645.4	1635.4	1630.2	1625.5	1618.8	1609.9	1600.5	1593.7
5°	1749.1	1733.5	1713.9	1690.5	1669.7	1649.5	1631.9	1614.4	1594.2	1573.4	1552.5
7.5°	1835.8	1805.1	1771.9	1733.5	1696.1	1662.2	1630.8	1600.9	1567.1	1536.8	1509.1
10°	1896.2	1854.6	1808.3	1759.5	1710.7	1668.3	1626.7	1588.9	1547.3	1510.2	1479.0
12.5°	1945.1	1896.2	1840.6	1779.8	1721.1	1669.9	1622.0	1572.8	1525.4	1485.2	1443.6
15°	2026.3	1959.3	1884.5	1811.6	1735.4	1665.7	1601.3	1544.0	1490.0	1433.4	1393.7
17.5°	2082.3	2002.7	1911.7	1824.1	1734.1	1652.0	1577.6	1509.4	1447.1	1389.3	1342.0
20°	2115.5	2027.6	1926.8	1827.2	1726.3	1638.4	1558.4	1482.9	1418.4	1355.9	1307.1
22.5°	2134.3	2037.0	1926.8	1822.5	1718.0	1622.8	1534.9	1456.3	1386.1	1323.6	1269.6
25°	2140.3	2036.1	1923.5	1803.8	1689.2	1588.3	1497.1	1411.9	1333.7	1271.3	1214.0
27.5°	2132.0	2009.3	1894.0	1771.1	1652.9	1546.5	1450.8	1361.2	1283.0	1215.9	1157.2
30°	2119.5	1987.9	1864.3	1736.8	1616.9	1514.7	1413.8	1328.0	1246.6	1176.9	1117.7
32.5°	2092.4	1961.9	1828.9	1698.2	1576.9	1471.5	1375.8	1289.4	1209.6	1138.4	1075.5
35°	2038.7	1906.6	1762.1	1628.0	1508.9	1399.5	1309.7	1226.4	1150.2	1074.1	1007.6
37.5°	1968.1	1833.0	1689.3	1542.5	1423.2	1320.0	1237.5	1159.4	1085.0	1015.5	941.9
40°	1901.4	1778.4	1629.9	1484.2	1361.8	1262.2	1186.0	1115.1	1040.2	971.2	897.6
42.5°	1820.7	1715.9	1565.9	1419.6	1298.8	1202.8	1131.9	1062.5	994.4	927.5	850.8
45°	1686.0	1606.5	1465.9	1325.4	1203.6	1108.6	1043.5	982.3	922.3	858.6	786.4
47.5°	1531.5	1477.7	1356.4	1212.4	1099.8	1014.3	951.5	901.4	850.8	787.0	723.6
50°	1424.2	1389.8	1272.6	1141.1	1033.7	955.0	890.5	843.6	801.3	740.1	683.5
52.5°	1309.7	1291.4	1192.4	1066.7	962.9	885.7	830.6	788.4	745.6	694.8	641.8
55°	1135.2	1145.0	1061.0	952.4	854.7	789.6	739.5	704.3	667.9	624.9	583.9
57.5°	956.9	992.5	936.2	840.7	749.3	689.1	651.3	621.7	591.2	555.5	520.5
60°	850.1	880.0	848.2	764.2	684.1	628.2	593.0	570.2	539.6	507.1	480.4
62.5°	746.0	778.0	759.1	691.3	616.9	568.8	537.8	516.6	493.8	465.5	437.7
65°	615.1	635.9	626.9	580.0	527.3	486.2	457.6	442.0	421.2	400.3	375.6
67.5°	471.2	511.4	506.1	481.2	435.6	403.6	384.8	371.0	352.0	336.6	319.8
70°	387.3	424.4	423.8	403.6	378.9	348.9	335.9	324.2	307.2	292.3	278.6
72.5°	317.0	351.0	356.0	340.6	323.7	301.0	288.5	280.5	264.0	253.7	242.6
75°	222.0	246.7	253.2	253.2	245.4	233.7	222.7	217.4	205.7	196.6	190.0
77.5°	145.5	161.2	171.3	173.7	174.9	171.0	161.8	158.2	149.2	145.9	139.7
80°	102.8	113.2	125.0	128.9	132.2	130.9	126.9	124.3	115.9	112.6	110.0
82.5°	71.1	76.8	86.4	95.1	94.1	97.5	94.1	92.0	85.7	84.5	81.9
85°	37.1	37.7	39.1	44.9	48.2	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	17.0	16.1	16.7	16.1	16.1	17.5	18.5	18.4	17.4	16.6	15.6
90°	22.7	20.5	18.3	15.7	12.7	9.7	6.7	3.7	6.7	9.7	12.7
92.5°	45.7	44.1	42.6	40.1	36.6	33.2	29.8	26.3	29.8	33.2	36.6
95°	89.6	87.7	85.8	83.6	81.1	78.7	76.2	73.8	76.2	78.7	81.1
97.5°	143.2	141.0	138.8	136.7	134.8	132.7	130.8	128.8	130.8	132.7	134.8
100°	183.2	180.8	178.2	176.5	175.4	174.3	173.2	172.1	173.2	174.3	175.4
102.5°	224.9	222.7	220.5	219.1	218.7	218.3	217.8	217.4	217.8	218.3	218.7
105°	290.4	289.3	288.2	287.6	287.2	287.0	286.7	286.4	286.7	287.0	287.2
107.5°	360.9	360.7	360.5	360.3	360.0	359.6	359.3	359.0	359.3	359.6	360.0
110°	409.9	410.2	410.5	410.3	409.8	409.2	408.7	408.1	408.7	409.2	409.8





TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	458.5	459.0	459.5	459.7	459.6	459.5	459.4	459.3	459.4	459.5	459.6
115°	534.6	535.2	535.7	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
117.5°	608.3	608.7	609.1	609.2	608.9	608.7	608.5	608.3	608.5	608.7	608.9
120°	659.3	660.1	661.0	660.8	659.7	658.7	657.5	656.5	657.5	658.7	659.7
122.5°	707.6	708.0	708.4	708.3	707.9	707.5	707.0	706.6	707.0	707.5	707.9
125°	779.9	780.2	780.5	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
127.5°	850.4	850.8	851.3	851.0	850.2	849.4	848.6	847.7	848.6	849.4	850.2
130°	898.6	898.6	898.6	898.2	897.4	896.6	895.8	895.0	895.8	896.6	897.4
132.5°	945.3	945.5	945.7	945.6	944.9	944.4	943.8	943.1	943.8	944.4	944.9
135°	1014.2	1014.2	1014.2	1013.4	1011.8	1010.1	1008.4	1006.8	1008.4	1010.1	1011.8
137.5°	1080.7	1080.3	1079.9	1079.2	1078.5	1077.7	1076.9	1076.2	1076.9	1077.7	1078.5
140°	1124.9	1124.9	1124.9	1124.5	1124.1	1123.5	1122.9	1122.4	1122.9	1123.5	1124.1
142.5°	1166.6	1166.8	1167.0	1166.9	1166.3	1165.8	1165.2	1164.7	1165.2	1165.8	1166.3
145°	1228.8	1228.5	1228.2	1227.6	1226.5	1225.4	1224.3	1223.2	1224.3	1225.4	1226.5
147.5°	1286.5	1286.8	1287.0	1286.5	1285.2	1283.9	1282.5	1281.2	1282.5	1283.9	1285.2
150°	1321.5	1321.5	1321.5	1321.0	1319.9	1318.8	1317.7	1316.6	1317.7	1318.8	1319.9
152.5°	1353.6	1353.3	1353.2	1352.7	1352.0	1351.4	1350.7	1350.1	1350.7	1351.4	1352.0
155°	1400.8	1401.0	1401.3	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4
157.5°	1442.3	1442.4	1442.5	1442.8	1443.2	1443.7	1444.2	1444.7	1444.2	1443.7	1443.2
160°	1468.4	1468.7	1468.9	1469.2	1469.5	1469.7	1470.0	1470.3	1470.0	1469.7	1469.5
162.5°	1490.0	1490.3	1490.5	1491.0	1491.8	1492.5	1493.2	1493.9	1493.2	1492.5	1491.8
165°	1520.5	1521.1	1521.7	1522.3	1523.1	1524.0	1524.8	1525.6	1524.8	1524.0	1523.1
167.5°	1544.9	1544.9	1544.8	1545.4	1546.5	1547.7	1548.8	1550.0	1548.8	1547.7	1546.5
170°	1558.3	1558.0	1557.7	1558.3	1559.6	1561.0	1562.4	1563.7	1562.4	1561.0	1559.6
172.5°	1568.6	1568.5	1568.4	1569.0	1570.1	1571.2	1572.4	1573.5	1572.4	1571.2	1570.1
175°	1580.2	1580.5	1580.8	1581.6	1583.0	1584.4	1585.7	1587.1	1585.7	1584.4	1583.0
177.5°	1586.6	1586.6	1586.6	1587.1	1588.2	1589.3	1590.4	1591.5	1590.4	1589.3	1588.2
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1586.5	1581.3	1574.5	1566.7	1557.3	1549.0	1545.3	1548.5	1550.0	1545.9	1545.3
5°	1538.1	1521.9	1508.9	1489.4	1473.7	1460.7	1451.6	1447.7	1449.0	1438.6	1436.0
7.5°	1483.9	1464.6	1443.2	1420.1	1398.5	1379.3	1369.3	1363.8	1352.8	1348.1	1340.2
10°	1449.0	1422.9	1402.2	1374.8	1350.1	1327.3	1316.2	1307.1	1296.0	1290.8	1279.8
12.5°	1413.1	1382.8	1359.9	1331.5	1306.3	1278.9	1268.3	1251.4	1234.0	1223.1	1208.9
15°	1362.4	1326.0	1298.0	1264.1	1234.2	1203.0	1174.9	1143.7	1132.0	1107.3	1092.9
17.5°	1303.2	1266.2	1231.6	1186.2	1140.0	1101.1	1071.3	1041.4	1023.4	1007.6	1000.4
20°	1264.1	1230.3	1182.1	1129.4	1078.0	1035.0	1010.9	991.4	971.8	960.8	953.0
22.5°	1227.2	1183.9	1128.0	1071.1	1019.6	986.0	965.6	945.6	929.7	919.2	908.7
25°	1165.2	1108.6	1049.3	984.2	949.1	919.8	897.6	881.3	871.6	857.9	852.7
27.5°	1101.6	1032.9	967.6	923.8	887.2	860.4	841.1	828.9	816.5	807.8	801.0
30°	1052.6	982.9	924.3	882.6	845.5	823.5	807.8	793.5	783.7	776.6	771.4
32.5°	1004.1	934.5	885.3	840.5	811.2	789.6	772.9	762.2	754.6	745.3	742.2
35°	934.1	872.3	829.3	789.0	759.0	739.5	726.4	715.4	708.9	706.3	704.3
37.5°	866.8	816.1	770.0	736.9	710.2	694.8	679.5	674.0	669.5	664.9	667.0
40°	824.1	776.6	735.6	700.4	678.9	662.0	652.9	646.4	642.5	642.5	642.5
42.5°	787.1	740.6	700.7	669.2	647.7	633.4	623.2	617.8	616.4	616.0	619.1
45°	729.7	686.7	646.4	620.4	602.1	587.8	582.0	577.4	577.4	580.0	580.7
47.5°	672.8	632.6	600.1	571.0	554.3	545.4	540.3	537.9	538.2	540.8	543.8
50°	637.9	598.2	566.3	540.3	524.6	516.2	511.6	510.4	511.6	511.6	516.2
52.5°	599.9	564.4	533.0	511.1	493.4	485.5	483.0	481.2	481.9	484.0	486.0
55°	544.2	512.3	482.3	461.5	448.5	443.3	437.4	438.1	436.8	438.1	438.1
57.5°	488.4	459.7	431.9	415.3	403.8	396.3	389.9	391.8	389.8	389.6	388.5
60°	452.4	421.2	399.0	384.1	371.0	364.5	358.7	360.0	358.0	356.7	354.1
62.5°	413.4	387.3	366.2	351.8	341.4	333.8	327.9	326.6	322.1	317.6	311.9
65°	356.7	335.3	316.3	302.7	292.9	287.1	282.5	278.6	268.8	258.4	253.2
67.5°	301.7	286.2	268.6	257.0	249.1	241.4	232.7	226.0	216.9	211.2	207.9
70°	266.2	251.3	236.3	225.2	216.8	209.6	199.8	195.3	188.7	186.1	183.0
72.5°	232.4	218.4	204.6	194.5	185.5	179.9	172.3	167.7	164.9	163.8	160.5
75°	181.0	169.9	159.5	150.3	143.2	139.3	136.1	132.8	131.5	125.6	122.4
77.5°	132.0	124.7	118.2	111.7	106.6	104.0	97.8	94.0	91.8	89.0	88.4
80°	102.8	97.7	91.2	87.2	80.1	77.5	74.8	74.2	73.5	72.9	72.2
82.5°	77.4	72.2	65.6	63.3	61.3	59.8	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.4	36.4	35.8	35.1	34.5	33.8	33.8	33.2	33.8	33.2
87.5°	16.1	16.1	16.6	16.0	17.0	17.4	17.2	17.5	18.3	17.7	17.9
90°	15.7	18.3	20.5	22.7	24.9	27.1	28.7	30.3	32.0	33.6	34.7
92.5°	40.1	42.6	44.1	45.7	47.1	48.7	49.7	50.6	51.6	52.6	53.2
95°	83.6	85.8	87.7	89.6	91.6	93.4	94.2	95.1	95.9	96.7	97.1
97.5°	136.7	138.8	141.0	143.2	145.5	147.7	148.7	149.8	150.7	151.7	152.2
100°	176.5	178.2	180.8	183.2	185.6	188.1	188.7	189.1	189.7	190.3	190.5
102.5°	219.1	220.5	222.7	224.9	227.1	229.4	230.2	230.9	231.7	232.4	232.9
105°	287.6	288.2	289.3	290.4	291.5	292.6	293.4	294.2	295.1	295.9	296.7
107.5°	360.3	360.5	360.7	360.9	361.0	361.2	361.9	362.7	363.5	364.3	364.6
110°	410.3	410.5	410.2	409.9	409.6	409.4	408.8	408.3	407.7	407.2	407.3



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	459.7	459.5	459.0	458.5	458.0	457.5	457.5	457.3	457.2	457.1	457.1
115°	536.0	535.7	535.2	534.6	534.1	533.5	533.3	533.0	532.7	532.5	532.1
117.5°	609.2	609.1	608.7	608.3	607.9	607.6	606.6	605.7	604.8	603.8	603.1
120°	660.8	661.0	660.1	659.3	658.5	657.7	656.3	654.9	653.6	652.2	651.8
122.5°	708.3	708.4	708.0	707.6	707.3	706.9	706.0	705.0	704.1	703.2	702.2
125°	780.6	780.5	780.2	779.9	779.7	779.4	778.9	778.3	777.8	777.2	776.7
127.5°	851.0	851.3	850.8	850.4	849.9	849.5	848.9	848.4	847.8	847.3	846.8
130°	898.2	898.6	898.6	898.6	898.6	898.6	898.1	897.6	897.0	896.4	895.6
132.5°	945.6	945.7	945.5	945.3	945.1	944.9	944.4	943.8	943.2	942.6	942.2
135°	1013.4	1014.2	1014.2	1014.2	1014.2	1014.2	1013.7	1013.1	1012.6	1012.0	1011.3
137.5°	1079.2	1079.9	1080.3	1080.7	1081.2	1081.6	1080.8	1080.2	1079.5	1078.7	1078.5
140°	1124.5	1124.9	1124.9	1124.9	1124.9	1124.9	1124.5	1124.3	1124.1	1123.7	1123.5
142.5°	1166.9	1167.0	1166.8	1166.6	1166.4	1166.1	1166.1	1166.0	1166.0	1166.0	1165.9
145°	1227.6	1228.2	1228.5	1228.8	1229.1	1229.3	1229.1	1228.8	1228.5	1228.2	1227.7
147.5°	1286.5	1287.0	1286.8	1286.5	1286.4	1286.1	1285.9	1285.7	1285.5	1285.2	1285.0
150°	1321.0	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.4
152.5°	1352.7	1353.2	1353.3	1353.6	1353.8	1354.0	1354.6	1355.3	1355.9	1356.6	1356.6
155°	1401.4	1401.3	1401.0	1400.8	1400.5	1400.2	1401.3	1402.4	1403.5	1404.6	1404.6
157.5°	1442.8	1442.5	1442.4	1442.3	1442.3	1442.3	1443.1	1443.9	1444.7	1445.5	1445.4
160°	1469.2	1468.9	1468.7	1468.4	1468.1	1467.9	1468.7	1469.5	1470.3	1471.1	1470.8
162.5°	1491.0	1490.5	1490.3	1490.0	1489.7	1489.5	1490.9	1492.4	1493.9	1495.3	1495.4
165°	1522.3	1521.7	1521.1	1520.5	1520.0	1519.5	1521.1	1522.7	1524.4	1526.0	1526.3
167.5°	1545.4	1544.8	1544.9	1544.9	1545.0	1545.1	1546.7	1548.3	1550.0	1551.6	1551.6
170°	1558.3	1557.7	1558.0	1558.3	1558.5	1558.8	1560.4	1562.1	1563.7	1565.4	1565.2
172.5°	1569.0	1568.4	1568.5	1568.6	1568.6	1568.6	1570.5	1572.4	1574.2	1576.1	1576.1
175°	1581.6	1580.8	1580.5	1580.2	1580.0	1579.7	1581.6	1583.6	1585.4	1587.4	1587.4
177.5°	1587.1	1586.6	1586.6	1586.6	1586.6	1586.6	1588.1	1589.7	1591.1	1592.7	1592.6
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1542.2	1543.3	1539.6	1538.6	1539.6	1543.3	1542.2	1545.3	1545.9	1550.0	1548.5
5°	1430.8	1429.5	1426.2	1426.9	1426.2	1429.5	1430.8	1436.0	1438.6	1449.0	1447.7
7.5°	1335.5	1330.4	1331.8	1326.7	1331.8	1330.4	1335.5	1340.2	1348.1	1352.8	1363.8
10°	1277.2	1270.0	1264.1	1258.9	1264.1	1270.0	1277.2	1279.8	1290.8	1296.0	1307.1
12.5°	1197.5	1191.3	1183.4	1185.0	1183.4	1191.3	1197.5	1208.9	1223.1	1234.0	1251.4
15°	1084.4	1074.7	1059.1	1061.0	1059.1	1074.7	1084.4	1092.9	1107.3	1132.0	1143.7
17.5°	988.8	988.9	981.8	983.4	981.8	988.9	988.8	1000.4	1007.6	1023.4	1041.4
20°	939.3	934.7	935.4	933.4	935.4	934.7	939.3	953.0	960.8	971.8	991.4
22.5°	904.9	899.4	894.8	890.7	894.8	899.4	904.9	908.7	919.2	929.7	945.6
25°	846.9	842.9	837.1	835.8	837.1	842.9	846.9	852.7	857.9	871.6	881.3
27.5°	795.8	795.1	792.7	789.7	792.7	795.1	795.8	801.0	807.8	816.5	828.9
30°	766.1	764.8	763.5	761.6	763.5	764.8	766.1	771.4	776.6	783.7	793.5
32.5°	739.6	738.8	737.5	737.7	737.5	738.8	739.6	742.2	745.3	754.6	762.2
35°	701.7	701.1	699.8	699.1	699.8	701.1	701.7	704.3	706.3	708.9	715.4
37.5°	666.3	668.0	667.2	667.1	667.2	668.0	666.3	667.0	664.9	669.5	674.0
40°	641.8	642.5	643.8	643.1	643.8	642.5	641.8	642.5	642.5	642.5	646.4
42.5°	621.5	621.7	623.5	621.3	623.5	621.7	621.5	619.1	616.0	616.4	617.8
45°	585.2	589.1	588.5	588.5	588.5	589.1	585.2	580.7	580.0	577.4	577.4
47.5°	545.5	548.9	549.8	549.7	549.8	548.9	545.5	543.8	540.8	538.2	537.9
50°	519.4	518.1	520.1	519.4	520.1	518.1	519.4	516.2	511.6	511.6	510.4
52.5°	487.7	488.0	487.8	487.1	487.8	488.0	487.7	486.0	484.0	481.9	481.2
55°	438.7	439.4	438.1	438.7	438.1	439.4	438.7	438.1	438.1	436.8	438.1
57.5°	385.6	382.5	383.8	382.2	383.8	382.5	385.6	388.5	389.6	389.8	391.8
60°	347.6	342.4	341.1	338.5	341.1	342.4	347.6	354.1	356.7	358.0	360.0
62.5°	304.9	301.3	296.9	298.9	296.9	301.3	304.9	311.9	317.6	322.1	326.6
65°	248.0	245.4	243.4	246.1	243.4	245.4	248.0	253.2	258.4	268.8	278.6
67.5°	205.3	203.9	203.9	202.6	203.9	203.9	205.3	207.9	211.2	216.9	226.0
70°	183.0	181.0	181.0	179.7	181.0	181.0	183.0	183.0	186.1	188.7	195.3
72.5°	160.0	158.1	158.6	157.8	158.6	158.1	160.0	160.5	163.8	164.9	167.7
75°	118.5	115.2	115.2	115.9	115.2	115.2	118.5	122.4	125.6	131.5	132.8
77.5°	88.4	87.7	88.6	87.5	88.6	87.7	88.4	88.4	89.0	91.8	94.0
80°	72.2	71.6	70.9	72.9	70.9	71.6	72.2	72.2	72.9	73.5	74.2
82.5°	56.1	56.0	55.8	58.3	55.8	56.0	56.1	57.2	57.3	56.9	57.6
85°	33.8	32.5	33.8	32.5	33.8	32.5	33.8	33.2	33.8	33.2	33.8
87.5°	19.0	18.6	18.2	18.8	18.2	18.6	19.0	17.9	17.7	18.3	17.5
90°	35.2	35.8	36.4	36.9	36.4	35.8	35.2	34.7	33.6	32.0	30.3
92.5°	53.6	53.9	54.2	54.5	54.2	53.9	53.6	53.2	52.6	51.6	50.6
95°	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	96.7	95.9	95.1
97.5°	152.2	152.2	152.2	152.2	152.2	152.2	152.2	152.2	151.7	150.7	149.8
100°	190.5	190.5	190.5	190.5	190.5	190.5	190.5	190.5	190.3	189.7	189.1
102.5°	233.2	233.4	233.6	233.8	233.6	233.4	233.2	232.9	232.4	231.7	230.9
105°	297.5	298.3	299.1	299.9	299.1	298.3	297.5	296.7	295.9	295.1	294.2
107.5°	364.5	364.5	364.4	364.4	364.4	364.5	364.5	364.6	364.3	363.5	362.7
110°	408.1	409.0	409.8	410.6	409.8	409.0	408.1	407.3	407.2	407.7	408.3



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	457.3	457.5	457.6	457.8	457.6	457.5	457.3	457.1	457.1	457.2	457.3
115°	531.9	531.7	531.3	531.1	531.3	531.7	531.9	532.1	532.5	532.7	533.0
117.5°	602.5	602.0	601.4	600.9	601.4	602.0	602.5	603.1	603.8	604.8	605.7
120°	652.4	652.9	653.5	654.0	653.5	652.9	652.4	651.8	652.2	653.6	654.9
122.5°	701.2	700.3	699.3	698.3	699.3	700.3	701.2	702.2	703.2	704.1	705.0
125°	776.1	775.6	775.0	774.5	775.0	775.6	776.1	776.7	777.2	777.8	778.3
127.5°	846.4	846.0	845.5	845.1	845.5	846.0	846.4	846.8	847.3	847.8	848.4
130°	894.5	893.5	892.3	891.3	892.3	893.5	894.5	895.6	896.4	897.0	897.6
132.5°	941.8	941.3	940.9	940.4	940.9	941.3	941.8	942.2	942.6	943.2	943.8
135°	1010.5	1009.7	1008.9	1008.0	1008.9	1009.7	1010.5	1011.3	1012.0	1012.6	1013.1
137.5°	1078.6	1078.8	1079.0	1079.1	1079.0	1078.8	1078.6	1078.5	1078.7	1079.5	1080.2
140°	1123.2	1122.9	1122.7	1122.4	1122.7	1122.9	1123.2	1123.5	1123.7	1124.1	1124.3
142.5°	1165.8	1165.8	1165.7	1165.6	1165.7	1165.8	1165.8	1165.9	1166.0	1166.0	1166.0
145°	1226.9	1226.0	1225.2	1224.4	1225.2	1226.0	1226.9	1227.7	1228.2	1228.5	1228.8
147.5°	1284.7	1284.5	1284.2	1283.9	1284.2	1284.5	1284.7	1285.0	1285.2	1285.5	1285.7
150°	1321.1	1320.9	1320.6	1320.3	1320.6	1320.9	1321.1	1321.4	1321.5	1321.5	1321.5
152.5°	1355.8	1355.2	1354.5	1353.7	1354.5	1355.2	1355.8	1356.6	1356.6	1355.9	1355.3
155°	1403.5	1402.4	1401.3	1400.2	1401.3	1402.4	1403.5	1404.6	1404.6	1403.5	1402.4
157.5°	1444.5	1443.7	1442.7	1441.8	1442.7	1443.7	1444.5	1445.4	1445.5	1444.7	1443.9
160°	1469.5	1468.1	1466.7	1465.3	1466.7	1468.1	1469.5	1470.8	1471.1	1470.3	1469.5
162.5°	1494.0	1492.7	1491.3	1490.0	1491.3	1492.7	1494.0	1495.4	1495.3	1493.9	1492.4
165°	1525.2	1524.1	1523.0	1521.9	1523.0	1524.1	1525.2	1526.3	1526.0	1524.4	1522.7
167.5°	1549.9	1548.2	1546.5	1544.7	1546.5	1548.2	1549.9	1551.6	1551.6	1550.0	1548.3
170°	1563.3	1561.4	1559.5	1557.5	1559.5	1561.4	1563.3	1565.2	1565.4	1563.7	1562.1
172.5°	1574.1	1572.2	1570.3	1568.4	1570.3	1572.2	1574.1	1576.1	1576.1	1574.2	1572.4
175°	1585.4	1583.6	1581.6	1579.7	1581.6	1583.6	1585.4	1587.4	1587.4	1585.4	1583.6
177.5°	1590.8	1589.1	1587.4	1585.6	1587.4	1589.1	1590.8	1592.6	1592.7	1591.1	1589.7
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1545.3	1549.0	1557.3	1566.7	1574.5	1581.3	1586.5	1593.7	1600.5	1609.9	1618.8
5°	1451.6	1460.7	1473.7	1489.4	1508.9	1521.9	1538.1	1552.5	1573.4	1594.2	1614.4
7.5°	1369.3	1379.3	1398.5	1420.1	1443.2	1464.6	1483.9	1509.1	1536.8	1567.1	1600.9
10°	1316.2	1327.3	1350.1	1374.8	1402.2	1422.9	1449.0	1479.0	1510.2	1547.3	1588.9
12.5°	1268.3	1278.9	1306.3	1331.5	1359.9	1382.8	1413.1	1443.6	1485.2	1525.4	1572.8
15°	1174.9	1203.0	1234.2	1264.1	1298.0	1326.0	1362.4	1393.7	1433.4	1490.0	1544.0
17.5°	1071.3	1101.1	1140.0	1186.2	1231.6	1266.2	1303.2	1342.0	1389.3	1447.1	1509.4
20°	1010.9	1035.0	1078.0	1129.4	1182.1	1230.3	1264.1	1307.1	1355.9	1418.4	1482.9
22.5°	965.6	986.0	1019.6	1071.1	1128.0	1183.9	1227.2	1269.6	1323.6	1386.1	1456.3
25°	897.6	919.8	949.1	984.2	1049.3	1108.6	1165.2	1214.0	1271.3	1333.7	1411.9
27.5°	841.1	860.4	887.2	923.8	967.6	1032.9	1101.6	1157.2	1215.9	1283.0	1361.2
30°	807.8	823.5	845.5	882.6	924.3	982.9	1052.6	1117.7	1176.9	1246.6	1328.0
32.5°	772.9	789.6	811.2	840.5	885.3	934.5	1004.1	1075.5	1138.4	1209.6	1289.4
35°	726.4	739.5	759.0	789.0	829.3	872.3	934.1	1007.6	1074.1	1150.2	1226.4
37.5°	679.5	694.8	710.2	736.9	770.0	816.1	866.8	941.9	1015.5	1085.0	1159.4
40°	652.9	662.0	678.9	700.4	735.6	776.6	824.1	897.6	971.2	1040.2	1115.1
42.5°	623.2	633.4	647.7	669.2	700.7	740.6	787.1	850.8	927.5	994.4	1062.5
45°	582.0	587.8	602.1	620.4	646.4	686.7	729.7	786.4	858.6	922.3	982.3
47.5°	540.3	545.4	554.3	571.0	600.1	632.6	672.8	723.6	787.0	850.8	901.4
50°	511.6	516.2	524.6	540.3	566.3	598.2	637.9	683.5	740.1	801.3	843.6
52.5°	483.0	485.5	493.4	511.1	533.0	564.4	599.9	641.8	694.8	745.6	788.4
55°	437.4	443.3	448.5	461.5	482.3	512.3	544.2	583.9	624.9	667.9	704.3
57.5°	389.9	396.3	403.8	415.3	431.9	459.7	488.4	520.5	555.5	591.2	621.7
60°	358.7	364.5	371.0	384.1	399.0	421.2	452.4	480.4	507.1	539.6	570.2
62.5°	327.9	333.8	341.4	351.8	366.2	387.3	413.4	437.7	465.5	493.8	516.6
65°	282.5	287.1	292.9	302.7	316.3	335.3	356.7	375.6	400.3	421.2	442.0
67.5°	232.7	241.4	249.1	257.0	268.6	286.2	301.7	319.8	336.6	352.0	371.0
70°	199.8	209.6	216.8	225.2	236.3	251.3	266.2	278.6	292.3	307.2	324.2
72.5°	172.3	179.9	185.5	194.5	204.6	218.4	232.4	242.6	253.7	264.0	280.5
75°	136.1	139.3	143.2	150.3	159.5	169.9	181.0	190.0	196.6	205.7	217.4
77.5°	97.8	104.0	106.6	111.7	118.2	124.7	132.0	139.7	145.9	149.2	158.2
80°	74.8	77.5	80.1	87.2	91.2	97.7	102.8	110.0	112.6	115.9	124.3
82.5°	58.2	59.8	61.3	63.3	65.6	72.2	77.4	81.9	84.5	85.7	92.0
85°	33.8	34.5	35.1	35.8	36.4	36.4	39.1	42.3	46.9	46.9	48.8
87.5°	17.2	17.4	17.0	16.0	16.6	16.1	16.1	15.6	16.6	17.4	18.4
90°	28.7	27.1	24.9	22.7	20.5	18.3	15.7	12.7	9.7	6.7	3.7
92.5°	49.7	48.7	47.1	45.7	44.1	42.6	40.1	36.6	33.2	29.8	26.3
95°	94.2	93.4	91.6	89.6	87.7	85.8	83.6	81.1	78.7	76.2	73.8
97.5°	148.7	147.7	145.5	143.2	141.0	138.8	136.7	134.8	132.7	130.8	128.8
100°	188.7	188.1	185.6	183.2	180.8	178.2	176.5	175.4	174.3	173.2	172.1
102.5°	230.2	229.4	227.1	224.9	222.7	220.5	219.1	218.7	218.3	217.8	217.4
105°	293.4	292.6	291.5	290.4	289.3	288.2	287.6	287.2	287.0	286.7	286.4
107.5°	361.9	361.2	361.0	360.9	360.7	360.5	360.3	360.0	359.6	359.3	359.0
110°	408.8	409.4	409.6	409.9	410.2	410.5	410.3	409.8	409.2	408.7	408.1



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.5	457.5	458.0	458.5	459.0	459.5	459.7	459.6	459.5	459.4	459.3
115°	533.3	533.5	534.1	534.6	535.2	535.7	536.0	536.0	536.0	536.0	536.0
117.5°	606.6	607.6	607.9	608.3	608.7	609.1	609.2	608.9	608.7	608.5	608.3
120°	656.3	657.7	658.5	659.3	660.1	661.0	660.8	659.7	658.7	657.5	656.5
122.5°	706.0	706.9	707.3	707.6	708.0	708.4	708.3	707.9	707.5	707.0	706.6
125°	778.9	779.4	779.7	779.9	780.2	780.5	780.6	780.6	780.6	780.6	780.6
127.5°	848.9	849.5	849.9	850.4	850.8	851.3	851.0	850.2	849.4	848.6	847.7
130°	898.1	898.6	898.6	898.6	898.6	898.6	898.2	897.4	896.6	895.8	895.0
132.5°	944.4	944.9	945.1	945.3	945.5	945.7	945.6	944.9	944.4	943.8	943.1
135°	1013.7	1014.2	1014.2	1014.2	1014.2	1014.2	1013.4	1011.8	1010.1	1008.4	1006.8
137.5°	1080.8	1081.6	1081.2	1080.7	1080.3	1079.9	1079.2	1078.5	1077.7	1076.9	1076.2
140°	1124.5	1124.9	1124.9	1124.9	1124.9	1124.9	1124.5	1124.1	1123.5	1122.9	1122.4
142.5°	1166.1	1166.1	1166.4	1166.6	1166.8	1167.0	1166.9	1166.3	1165.8	1165.2	1164.7
145°	1229.1	1229.3	1229.1	1228.8	1228.5	1228.2	1227.6	1226.5	1225.4	1224.3	1223.2
147.5°	1285.9	1286.1	1286.4	1286.5	1286.8	1287.0	1286.5	1285.2	1283.9	1282.5	1281.2
150°	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.0	1319.9	1318.8	1317.7	1316.6
152.5°	1354.6	1354.0	1353.8	1353.6	1353.3	1353.2	1352.7	1352.0	1351.4	1350.7	1350.1
155°	1401.3	1400.2	1400.5	1400.8	1401.0	1401.3	1401.4	1401.4	1401.4	1401.4	1401.4
157.5°	1443.1	1442.3	1442.3	1442.3	1442.4	1442.5	1442.8	1443.2	1443.7	1444.2	1444.7
160°	1468.7	1467.9	1468.1	1468.4	1468.7	1468.9	1469.2	1469.5	1469.7	1470.0	1470.3
162.5°	1490.9	1489.5	1489.7	1490.0	1490.3	1490.5	1491.0	1491.8	1492.5	1493.2	1493.9
165°	1521.1	1519.5	1520.0	1520.5	1521.1	1521.7	1522.3	1523.1	1524.0	1524.8	1525.6
167.5°	1546.7	1545.1	1545.0	1544.9	1544.9	1544.8	1545.4	1546.5	1547.7	1548.8	1550.0
170°	1560.4	1558.8	1558.5	1558.3	1558.0	1557.7	1558.3	1559.6	1561.0	1562.4	1563.7
172.5°	1570.5	1568.6	1568.6	1568.6	1568.5	1568.4	1569.0	1570.1	1571.2	1572.4	1573.5
175°	1581.6	1579.7	1580.0	1580.2	1580.5	1580.8	1581.6	1583.0	1584.4	1585.7	1587.1
177.5°	1588.1	1586.6	1586.6	1586.6	1586.6	1586.6	1587.1	1588.2	1589.3	1590.4	1591.5
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1625.5	1630.2	1635.4	1645.4	1653.7	1657.3	1664.6	1669.8	1668.3	1675.5	1688.0
5°	1631.9	1649.5	1669.7	1690.5	1713.9	1733.5	1749.1	1764.7	1777.1	1792.0	1814.2
7.5°	1630.8	1662.2	1696.1	1733.5	1771.9	1805.1	1835.8	1867.0	1894.8	1925.1	1964.8
10°	1626.7	1668.3	1710.7	1759.5	1808.3	1854.6	1896.2	1935.3	1972.4	2012.1	2062.2
12.5°	1622.0	1669.9	1721.1	1779.8	1840.6	1896.2	1945.1	2001.4	2047.9	2099.1	2157.0
15°	1601.3	1665.7	1735.4	1811.6	1884.5	1959.3	2026.3	2095.4	2159.8	2221.0	2293.9
17.5°	1577.6	1652.0	1734.1	1824.1	1911.7	2002.7	2082.3	2169.2	2235.1	2317.2	2384.9
20°	1558.4	1638.4	1726.3	1827.2	1926.8	2027.6	2115.5	2204.1	2278.3	2360.9	2446.9
22.5°	1534.9	1622.8	1718.0	1822.5	1926.8	2037.0	2134.3	2222.3	2314.2	2407.3	2495.9
25°	1497.1	1588.3	1689.2	1803.8	1923.5	2036.1	2140.3	2249.7	2348.6	2449.5	2528.9
27.5°	1450.8	1546.5	1652.9	1771.1	1894.0	2009.3	2132.0	2248.5	2348.1	2445.2	2514.5
30°	1413.8	1514.7	1616.9	1736.8	1864.3	1987.9	2119.5	2236.0	2340.8	2428.0	2467.1
32.5°	1375.8	1471.5	1576.9	1698.2	1828.9	1961.9	2092.4	2211.5	2308.5	2360.9	2361.8
35°	1309.7	1399.5	1508.9	1628.0	1762.1	1906.6	2038.7	2155.9	2215.2	2219.7	2155.9
37.5°	1237.5	1320.0	1423.2	1542.5	1689.3	1833.0	1968.1	2046.2	2066.0	1999.7	1881.7
40°	1186.0	1262.2	1361.8	1484.2	1629.9	1778.4	1901.4	1958.7	1937.9	1830.4	1698.9
42.5°	1131.9	1202.8	1298.8	1419.6	1565.9	1715.9	1820.7	1851.4	1796.2	1672.2	1518.3
45°	1043.5	1108.6	1203.6	1325.4	1465.9	1606.5	1686.0	1670.3	1578.5	1431.4	1258.9
47.5°	951.5	1014.3	1099.8	1212.4	1356.4	1477.7	1531.5	1484.4	1353.8	1192.0	1051.7
50°	890.5	955.0	1033.7	1141.1	1272.6	1389.8	1424.2	1352.7	1207.5	1051.9	923.0
52.5°	830.6	885.7	962.9	1066.7	1192.4	1291.4	1309.7	1227.2	1077.3	937.8	823.5
55°	739.5	789.6	854.7	952.4	1061.0	1145.0	1135.2	1029.2	893.1	774.0	684.1
57.5°	651.3	689.1	749.3	840.7	936.2	992.5	956.9	866.4	739.6	642.1	566.3
60°	593.0	628.2	684.1	764.2	848.2	880.0	850.1	751.9	651.6	562.4	498.6
62.5°	537.8	568.8	616.9	691.3	759.1	778.0	746.0	660.1	569.8	493.7	440.8
65°	457.6	486.2	527.3	580.0	626.9	635.9	615.1	527.3	458.9	395.1	358.7
67.5°	384.8	403.6	435.6	481.2	506.1	511.4	471.2	416.0	355.7	316.5	289.0
70°	335.9	348.9	378.9	403.6	423.8	424.4	387.3	343.1	296.9	265.0	244.8
72.5°	288.5	301.0	323.7	340.6	356.0	351.0	317.0	282.1	244.8	220.7	205.7
75°	222.7	233.7	245.4	253.2	253.2	246.7	222.0	195.9	174.5	160.1	155.6
77.5°	161.8	171.0	174.9	173.7	171.3	161.2	145.5	128.5	120.8	114.1	110.6
80°	126.9	130.9	132.2	128.9	125.0	113.2	102.8	95.7	88.5	85.9	84.6
82.5°	94.1	97.5	94.1	95.1	86.4	76.8	71.1	68.6	65.6	64.6	63.3
85°	50.1	49.5	48.2	44.9	39.1	37.7	37.1	36.4	35.1	35.8	34.5
87.5°	18.5	17.5	16.1	16.1	16.7	16.1	17.0	17.4	17.9	17.7	19.1
90°	6.7	9.7	12.7	15.7	18.3	20.5	22.7	24.9	27.1	28.7	30.3
92.5°	29.8	33.2	36.6	40.1	42.6	44.1	45.7	47.1	48.7	49.7	50.6
95°	76.2	78.7	81.1	83.6	85.8	87.7	89.6	91.6	93.4	94.2	95.1
97.5°	130.8	132.7	134.8	136.7	138.8	141.0	143.2	145.5	147.7	148.7	149.8
100°	173.2	174.3	175.4	176.5	178.2	180.8	183.2	185.6	188.1	188.7	189.1
102.5°	217.8	218.3	218.7	219.1	220.5	222.7	224.9	227.1	229.4	230.2	230.9
105°	286.7	287.0	287.2	287.6	288.2	289.3	290.4	291.5	292.6	293.4	294.2
107.5°	359.3	359.6	360.0	360.3	360.5	360.7	360.9	361.0	361.2	361.9	362.7
110°	408.7	409.2	409.8	410.3	410.5	410.2	409.9	409.6	409.4	408.8	408.3





TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.4	459.5	459.6	459.7	459.5	459.0	458.5	458.0	457.5	457.5	457.3
115°	536.0	536.0	536.0	536.0	535.7	535.2	534.6	534.1	533.5	533.3	533.0
117.5°	608.5	608.7	608.9	609.2	609.1	608.7	608.3	607.9	607.6	606.6	605.7
120°	657.5	658.7	659.7	660.8	661.0	660.1	659.3	658.5	657.7	656.3	654.9
122.5°	707.0	707.5	707.9	708.3	708.4	708.0	707.6	707.3	706.9	706.0	705.0
125°	780.6	780.6	780.6	780.6	780.5	780.2	779.9	779.7	779.4	778.9	778.3
127.5°	848.6	849.4	850.2	851.0	851.3	850.8	850.4	849.9	849.5	848.9	848.4
130°	895.8	896.6	897.4	898.2	898.6	898.6	898.6	898.6	898.6	898.1	897.6
132.5°	943.8	944.4	944.9	945.6	945.7	945.5	945.3	945.1	944.9	944.4	943.8
135°	1008.4	1010.1	1011.8	1013.4	1014.2	1014.2	1014.2	1014.2	1014.2	1013.7	1013.1
137.5°	1076.9	1077.7	1078.5	1079.2	1079.9	1080.3	1080.7	1081.2	1081.6	1080.8	1080.2
140°	1122.9	1123.5	1124.1	1124.5	1124.9	1124.9	1124.9	1124.9	1124.9	1124.5	1124.3
142.5°	1165.2	1165.8	1166.3	1166.9	1167.0	1166.8	1166.6	1166.4	1166.1	1166.1	1166.0
145°	1224.3	1225.4	1226.5	1227.6	1228.2	1228.5	1228.8	1229.1	1229.3	1229.1	1228.8
147.5°	1282.5	1283.9	1285.2	1286.5	1287.0	1286.8	1286.5	1286.4	1286.1	1285.9	1285.7
150°	1317.7	1318.8	1319.9	1321.0	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5	1321.5
152.5°	1350.7	1351.4	1352.0	1352.7	1353.2	1353.3	1353.6	1353.8	1354.0	1354.6	1355.3
155°	1401.4	1401.4	1401.4	1401.4	1401.3	1401.0	1400.8	1400.5	1400.2	1401.3	1402.4
157.5°	1444.2	1443.7	1443.2	1442.8	1442.5	1442.4	1442.3	1442.3	1442.3	1443.1	1443.9
160°	1470.0	1469.7	1469.5	1469.2	1468.9	1468.7	1468.4	1468.1	1467.9	1468.7	1469.5
162.5°	1493.2	1492.5	1491.8	1491.0	1490.5	1490.3	1490.0	1489.7	1489.5	1490.9	1492.4
165°	1524.8	1524.0	1523.1	1522.3	1521.7	1521.1	1520.5	1520.0	1519.5	1521.1	1522.7
167.5°	1548.8	1547.7	1546.5	1545.4	1544.8	1544.9	1544.9	1545.0	1545.1	1546.7	1548.3
170°	1562.4	1561.0	1559.6	1558.3	1557.7	1558.0	1558.3	1558.5	1558.8	1560.4	1562.1
172.5°	1572.4	1571.2	1570.1	1569.0	1568.4	1568.5	1568.6	1568.6	1568.6	1570.5	1572.4
175°	1585.7	1584.4	1583.0	1581.6	1580.8	1580.5	1580.2	1580.0	1579.7	1581.6	1583.6
177.5°	1590.4	1589.3	1588.2	1587.1	1586.6	1586.6	1586.6	1586.6	1586.6	1588.1	1589.7
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1694.8	1696.9	1698.4	1703.6	1704.1	1708.9	1704.1
5°	1835.0	1844.1	1858.5	1872.7	1874.0	1883.2	1866.9
7.5°	1992.3	2013.4	2026.5	2049.7	2058.8	2064.5	2055.1
10°	2100.6	2120.1	2154.6	2171.5	2188.5	2191.0	2183.3
12.5°	2205.3	2236.3	2263.4	2295.5	2294.7	2317.7	2309.3
15°	2344.7	2376.6	2414.3	2450.1	2463.2	2463.2	2473.6
17.5°	2444.2	2502.6	2541.7	2569.8	2600.5	2605.9	2602.2
20°	2511.4	2574.5	2616.1	2652.6	2673.4	2679.3	2679.3
22.5°	2561.3	2615.1	2655.8	2688.5	2705.7	2712.6	2710.5
25°	2596.0	2642.1	2666.9	2676.7	2681.2	2680.0	2667.6
27.5°	2548.5	2546.5	2530.9	2500.9	2478.4	2464.7	2449.1
30°	2458.0	2424.1	2385.1	2342.1	2286.8	2244.4	2231.4
32.5°	2323.1	2247.0	2180.9	2109.3	2049.8	2007.5	1989.8
35°	2062.2	1941.8	1843.5	1757.5	1695.1	1656.0	1643.0
37.5°	1752.6	1636.1	1514.3	1431.0	1379.2	1339.8	1325.0
40°	1555.8	1428.8	1322.7	1244.6	1191.2	1152.8	1152.2
42.5°	1376.1	1254.9	1155.0	1098.8	1041.2	1015.9	1015.7
45°	1126.7	1029.8	945.2	900.9	866.4	845.5	839.7
47.5°	932.9	852.7	796.4	761.1	733.0	719.7	711.1
50°	824.1	753.8	708.9	678.2	662.7	645.7	644.4
52.5°	733.4	676.7	641.7	616.9	597.0	586.9	587.2
55°	616.4	571.5	546.8	527.9	512.3	504.5	501.2
57.5°	519.3	485.6	467.7	450.3	443.7	437.6	435.9
60°	458.9	436.1	419.2	405.5	395.7	393.8	393.1
62.5°	409.0	385.1	373.4	362.8	355.7	352.7	351.5
65°	337.2	319.6	309.2	300.8	298.2	293.6	292.9
67.5°	271.8	261.3	254.4	248.5	245.0	244.8	244.8
70°	231.7	225.8	220.0	216.8	214.8	213.5	213.5
72.5°	197.4	193.1	188.3	186.5	186.1	184.8	184.3
75°	150.3	145.8	146.4	143.2	140.6	137.4	135.4
77.5°	106.6	103.4	102.7	102.3	100.1	99.7	100.8
80°	82.7	79.4	78.8	79.4	78.8	76.8	76.8
82.5°	62.9	60.2	59.5	59.1	58.5	59.1	58.0
85°	33.8	32.5	32.5	32.5	33.8	33.2	32.5
87.5°	18.3	18.2	18.9	18.5	18.6	18.2	18.8
90°	32.0	33.6	34.7	35.2	35.8	36.4	36.9
92.5°	51.6	52.6	53.2	53.6	53.9	54.2	54.5
95°	95.9	96.7	97.1	97.1	97.1	97.1	97.1
97.5°	150.7	151.7	152.2	152.2	152.2	152.2	152.2
100°	189.7	190.3	190.5	190.5	190.5	190.5	190.5
102.5°	231.7	232.4	232.9	233.2	233.4	233.6	233.8
105°	295.1	295.9	296.7	297.5	298.3	299.1	299.9
107.5°	363.5	364.3	364.6	364.5	364.5	364.4	364.4
110°	407.7	407.2	407.3	408.1	409.0	409.8	410.6



TEST NUMBER: P333112-930

CATALOG NUMBER: S124RDIW-S1195D1560U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	457.2	457.1	457.1	457.3	457.5	457.6	457.8
115°	532.7	532.5	532.1	531.9	531.7	531.3	531.1
117.5°	604.8	603.8	603.1	602.5	602.0	601.4	600.9
120°	653.6	652.2	651.8	652.4	652.9	653.5	654.0
122.5°	704.1	703.2	702.2	701.2	700.3	699.3	698.3
125°	777.8	777.2	776.7	776.1	775.6	775.0	774.5
127.5°	847.8	847.3	846.8	846.4	846.0	845.5	845.1
130°	897.0	896.4	895.6	894.5	893.5	892.3	891.3
132.5°	943.2	942.6	942.2	941.8	941.3	940.9	940.4
135°	1012.6	1012.0	1011.3	1010.5	1009.7	1008.9	1008.0
137.5°	1079.5	1078.7	1078.5	1078.6	1078.8	1079.0	1079.1
140°	1124.1	1123.7	1123.5	1123.2	1122.9	1122.7	1122.4
142.5°	1166.0	1166.0	1165.9	1165.8	1165.8	1165.7	1165.6
145°	1228.5	1228.2	1227.7	1226.9	1226.0	1225.2	1224.4
147.5°	1285.5	1285.2	1285.0	1284.7	1284.5	1284.2	1283.9
150°	1321.5	1321.5	1321.4	1321.1	1320.9	1320.6	1320.3
152.5°	1355.9	1356.6	1356.6	1355.8	1355.2	1354.5	1353.7
155°	1403.5	1404.6	1404.6	1403.5	1402.4	1401.3	1400.2
157.5°	1444.7	1445.5	1445.4	1444.5	1443.7	1442.7	1441.8
160°	1470.3	1471.1	1470.8	1469.5	1468.1	1466.7	1465.3
162.5°	1493.9	1495.3	1495.4	1494.0	1492.7	1491.3	1490.0
165°	1524.4	1526.0	1526.3	1525.2	1524.1	1523.0	1521.9
167.5°	1550.0	1551.6	1551.6	1549.9	1548.2	1546.5	1544.7
170°	1563.7	1565.4	1565.2	1563.3	1561.4	1559.5	1557.5
172.5°	1574.2	1576.1	1576.1	1574.1	1572.2	1570.3	1568.4
175°	1585.4	1587.4	1587.4	1585.4	1583.6	1581.6	1579.7
177.5°	1591.1	1592.7	1592.6	1590.8	1589.1	1587.4	1585.6
180°	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5	1589.5

(END OF REPORT)