

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: P333092-935

Luminaire Tested: **S124RDIW-S1020D1560U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333092-935  
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-S1020D1560U935-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

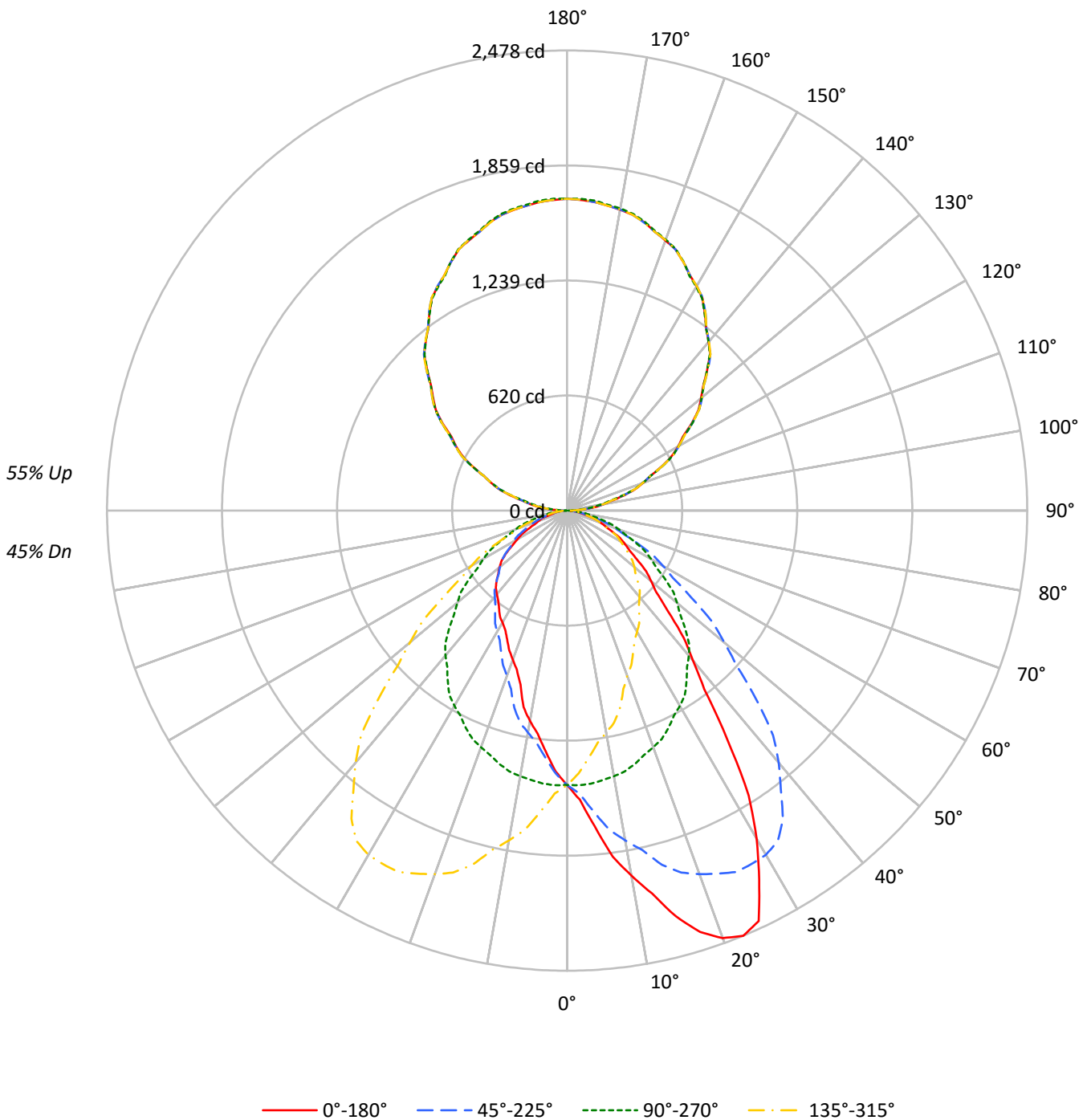
Lumens per Lamp: N/A  
Luminaire Lumens: 8396.6 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (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	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51	51	51	45
1	97	93	89	86	89	85	82	79	71	69	67		58	56	55		46	45	44	38
2	89	82	76	71	81	75	70	66	63	59	56		51	49	47		41	39	38	33
3	81	72	65	59	74	66	60	55	56	51	47		46	42	40		36	34	32	28
4	74	64	56	50	68	59	52	47	50	45	41		41	37	34		33	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35		37	33	30		30	27	25	21
6	63	51	43	38	58	47	40	35	40	35	31		33	29	26		27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27		30	26	23		25	22	20	17
8	54	42	35	29	50	39	32	28	33	28	24		28	24	21		23	20	18	15
9	50	38	31	26	46	36	29	25	31	25	22		26	22	19		21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	20		24	20	17		20	17	15	13

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

	0°	90°	180°	270°
0°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	1.7
10°-20°	431.8	5.1
20°-30°	675.3	8.0
30°-40°	750.8	8.9
40°-50°	666.1	7.9
50°-60°	519.0	6.2
60°-70°	339.8	4.0
70°-80°	167.1	2.0
80°-90°	46.3	0.6
90°-100°	110.7	1.3
100°-110°	328.0	3.9
110°-120°	556.7	6.6
120°-130°	734.0	8.7
130°-140°	824.4	9.8
140°-150°	810.1	9.6
150°-160°	681.3	8.1
160°-170°	453.3	5.4
170°-180°	158.7	1.9
0°-30°	1250.3	14.9
0°-40°	2001.0	23.8
0°-60°	3186.1	37.9
0°-90°	3739.3	44.5
90°-120°	995.4	11.9
90°-150°	3363.9	40.1
90°-180°	4657.0	55.5
0°-180°	8396.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	35
90°	39	4	39	4	39	21
95°	102	78	102	78	102	107
105°	317	302	317	302	317	334
115°	561	566	561	566	561	554
125°	818	824	818	824	818	730
135°	1064	1063	1064	1063	1064	822
145°	1293	1292	1293	1292	1293	809
155°	1479	1480	1479	1480	1479	681
165°	1607	1611	1607	1611	1607	453
175°	1668	1676	1668	1676	1668	158
180°	1679	1679	1679	1679	1679	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	18.3	17.7	18.0	17.9	18.3	17.6	17.7	18.3	17.0	17.1	16.7
90°	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0	30.3	28.6	26.3
92.5°	57.6	57.3	56.9	56.6	56.2	55.5	54.5	53.5	52.4	51.4	49.8
95°	102.5	102.5	102.5	102.5	102.5	102.1	101.3	100.4	99.5	98.7	96.7
97.5°	160.7	160.7	160.7	160.7	160.7	160.2	159.2	158.2	157.0	156.0	153.7
100°	201.2	201.2	201.2	201.2	201.2	201.0	200.4	199.8	199.2	198.6	196.0
102.5°	246.9	246.7	246.5	246.2	246.0	245.5	244.7	243.8	243.1	242.3	239.9
105°	316.8	315.9	315.0	314.2	313.3	312.5	311.6	310.7	309.9	309.0	307.8
107.5°	384.8	384.9	385.0	385.0	385.0	384.7	383.8	383.1	382.2	381.4	381.3
110°	433.6	432.7	431.9	431.0	430.2	430.0	430.6	431.2	431.7	432.3	432.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	483.5	483.3	483.1	482.9	482.8	482.8	482.8	482.9	483.1	483.2	483.7
115°	560.9	561.1	561.5	561.7	562.0	562.3	562.6	562.8	563.2	563.4	564.0
117.5°	634.6	635.2	635.8	636.3	636.9	637.7	638.7	639.6	640.6	641.6	642.0
120°	690.7	690.1	689.5	689.0	688.4	688.8	690.3	691.6	693.1	694.6	695.4
122.5°	737.4	738.5	739.5	740.5	741.6	742.6	743.6	744.5	745.5	746.5	746.9
125°	817.9	818.5	819.1	819.6	820.2	820.8	821.4	821.9	822.5	823.1	823.4
127.5°	892.4	892.9	893.4	893.8	894.2	894.8	895.4	896.0	896.5	897.1	897.6
130°	941.2	942.4	943.6	944.7	945.8	946.7	947.3	947.9	948.5	949.0	949.0
132.5°	993.2	993.6	994.1	994.5	995.0	995.5	996.1	996.7	997.3	997.8	998.1
135°	1064.5	1065.4	1066.3	1067.1	1068.0	1068.8	1069.4	1069.9	1070.5	1071.1	1071.1
137.5°	1139.6	1139.4	1139.3	1139.1	1138.9	1139.2	1140.0	1140.7	1141.4	1142.2	1141.8
140°	1185.3	1185.6	1185.9	1186.2	1186.5	1186.7	1187.1	1187.3	1187.6	1187.9	1187.9
142.5°	1231.0	1231.1	1231.1	1231.1	1231.2	1231.3	1231.3	1231.4	1231.5	1231.5	1231.7
145°	1293.0	1293.9	1294.8	1295.6	1296.5	1297.1	1297.4	1297.7	1298.0	1298.2	1298.0
147.5°	1355.9	1356.2	1356.5	1356.8	1357.0	1357.3	1357.5	1357.8	1358.0	1358.2	1358.5
150°	1394.3	1394.6	1394.9	1395.2	1395.5	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6
152.5°	1429.6	1430.4	1431.2	1431.8	1432.6	1432.6	1431.9	1431.2	1430.6	1429.9	1429.7
155°	1478.7	1479.9	1481.0	1482.1	1483.3	1483.3	1482.1	1481.0	1479.9	1478.7	1479.0
157.5°	1522.6	1523.5	1524.6	1525.5	1526.5	1526.6	1525.7	1524.8	1524.0	1523.1	1523.2
160°	1547.5	1548.9	1550.4	1551.9	1553.2	1553.6	1552.7	1551.9	1551.0	1550.1	1550.4
162.5°	1573.5	1574.9	1576.4	1577.8	1579.2	1579.2	1577.6	1576.1	1574.5	1573.0	1573.2
165°	1607.2	1608.3	1609.6	1610.7	1611.9	1611.5	1609.8	1608.1	1606.4	1604.6	1605.2
167.5°	1631.3	1633.1	1635.0	1636.8	1638.6	1638.6	1636.8	1635.1	1633.4	1631.7	1631.6
170°	1644.9	1646.9	1648.9	1651.0	1652.9	1653.1	1651.4	1649.7	1647.9	1646.1	1645.9
172.5°	1656.3	1658.3	1660.4	1662.3	1664.4	1664.4	1662.4	1660.5	1658.5	1656.6	1656.5
175°	1668.3	1670.3	1672.3	1674.3	1676.4	1676.4	1674.3	1672.3	1670.3	1668.3	1668.5
177.5°	1674.5	1676.4	1678.2	1680.0	1681.9	1682.0	1680.3	1678.8	1677.1	1675.5	1675.5
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	16.2	15.2	15.8	15.2	15.1	16.4	17.1	17.0	16.2	15.4	14.6
90°	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9	7.1	10.2	13.4
92.5°	48.2	46.6	44.9	42.4	38.7	35.0	31.4	27.8	31.4	35.0	38.7
95°	94.6	92.6	90.6	88.3	85.7	83.1	80.5	77.9	80.5	83.1	85.7
97.5°	151.3	149.0	146.6	144.4	142.3	140.2	138.1	136.0	138.1	140.2	142.3
100°	193.5	190.9	188.2	186.4	185.2	184.1	182.9	181.8	182.9	184.1	185.2
102.5°	237.5	235.1	232.8	231.4	230.9	230.5	230.0	229.5	230.0	230.5	230.9
105°	306.7	305.5	304.4	303.7	303.3	303.1	302.8	302.5	302.8	303.1	303.3
107.5°	381.1	380.9	380.7	380.5	380.1	379.8	379.4	379.1	379.4	379.8	380.1
110°	432.9	433.2	433.5	433.3	432.7	432.1	431.6	431.0	431.6	432.1	432.7





TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	484.2	484.7	485.3	485.5	485.3	485.3	485.2	485.0	485.2	485.3	485.3
115°	564.6	565.2	565.8	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
117.5°	642.4	642.8	643.3	643.3	643.1	642.8	642.6	642.4	642.6	642.8	643.1
120°	696.3	697.2	698.0	697.8	696.7	695.6	694.4	693.3	694.4	695.6	696.7
122.5°	747.3	747.7	748.1	748.0	747.6	747.2	746.7	746.2	746.7	747.2	747.6
125°	823.6	824.0	824.2	824.4	824.4	824.4	824.4	824.4	824.4	824.4	824.4
127.5°	898.0	898.5	899.0	898.7	897.9	897.0	896.1	895.3	896.1	897.0	897.9
130°	949.0	949.0	949.0	948.6	947.7	946.8	946.0	945.1	946.0	946.8	947.7
132.5°	998.3	998.5	998.8	998.6	997.9	997.3	996.7	996.0	996.7	997.3	997.9
135°	1071.1	1071.1	1071.1	1070.2	1068.5	1066.7	1065.0	1063.2	1065.0	1066.7	1068.5
137.5°	1141.3	1140.8	1140.4	1139.7	1138.9	1138.1	1137.3	1136.5	1137.3	1138.1	1138.9
140°	1187.9	1187.9	1187.9	1187.6	1187.1	1186.5	1185.9	1185.3	1185.9	1186.5	1187.1
142.5°	1232.0	1232.2	1232.4	1232.3	1231.7	1231.1	1230.5	1229.9	1230.5	1231.1	1231.7
145°	1297.7	1297.4	1297.1	1296.4	1295.2	1294.1	1292.9	1291.8	1292.9	1294.1	1295.2
147.5°	1358.7	1358.9	1359.2	1358.6	1357.2	1355.8	1354.4	1353.1	1354.4	1355.8	1357.2
150°	1395.6	1395.6	1395.6	1395.1	1393.9	1392.8	1391.5	1390.4	1391.5	1392.8	1393.9
152.5°	1429.4	1429.2	1429.0	1428.5	1427.8	1427.1	1426.4	1425.7	1426.4	1427.1	1427.8
155°	1479.3	1479.5	1479.9	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0
157.5°	1523.2	1523.3	1523.4	1523.6	1524.1	1524.7	1525.2	1525.7	1525.2	1524.7	1524.1
160°	1550.7	1551.0	1551.3	1551.5	1551.9	1552.1	1552.4	1552.7	1552.4	1552.1	1551.9
162.5°	1573.6	1573.8	1574.1	1574.6	1575.4	1576.1	1576.9	1577.6	1576.9	1576.1	1575.4
165°	1605.8	1606.4	1607.0	1607.7	1608.5	1609.4	1610.2	1611.1	1610.2	1609.4	1608.5
167.5°	1631.5	1631.5	1631.4	1632.0	1633.2	1634.4	1635.6	1636.8	1635.6	1634.4	1633.2
170°	1645.6	1645.3	1645.0	1645.6	1647.0	1648.5	1649.9	1651.4	1649.9	1648.5	1647.0
172.5°	1656.5	1656.4	1656.3	1656.9	1658.1	1659.3	1660.5	1661.7	1660.5	1659.3	1658.1
175°	1668.8	1669.1	1669.4	1670.3	1671.7	1673.2	1674.6	1676.0	1674.6	1673.2	1671.7
177.5°	1675.5	1675.5	1675.5	1676.1	1677.2	1678.4	1679.6	1680.7	1679.6	1678.4	1677.2
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	15.2	15.3	15.8	15.2	16.2	16.7	16.5	16.9	17.7	17.1	17.3
90°	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0	33.8	35.5	36.7
92.5°	42.4	44.9	46.6	48.2	49.8	51.4	52.4	53.5	54.5	55.5	56.2
95°	88.3	90.6	92.6	94.6	96.7	98.7	99.5	100.4	101.3	102.1	102.5
97.5°	144.4	146.6	149.0	151.3	153.7	156.0	157.0	158.2	159.2	160.2	160.7
100°	186.4	188.2	190.9	193.5	196.0	198.6	199.2	199.8	200.4	201.0	201.2
102.5°	231.4	232.8	235.1	237.5	239.9	242.3	243.1	243.8	244.7	245.5	246.0
105°	303.7	304.4	305.5	306.7	307.8	309.0	309.9	310.7	311.6	312.5	313.3
107.5°	380.5	380.7	380.9	381.1	381.3	381.4	382.2	383.1	383.8	384.7	385.0
110°	433.3	433.5	433.2	432.9	432.6	432.3	431.7	431.2	430.6	430.0	430.2



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	485.5	485.3	484.7	484.2	483.7	483.2	483.1	482.9	482.8	482.8	482.8
115°	566.0	565.8	565.2	564.6	564.0	563.4	563.2	562.8	562.6	562.3	562.0
117.5°	643.3	643.3	642.8	642.4	642.0	641.6	640.6	639.6	638.7	637.7	636.9
120°	697.8	698.0	697.2	696.3	695.4	694.6	693.1	691.6	690.3	688.8	688.4
122.5°	748.0	748.1	747.7	747.3	746.9	746.5	745.5	744.5	743.6	742.6	741.6
125°	824.4	824.2	824.0	823.6	823.4	823.1	822.5	821.9	821.4	820.8	820.2
127.5°	898.7	899.0	898.5	898.0	897.6	897.1	896.5	896.0	895.4	894.8	894.2
130°	948.6	949.0	949.0	949.0	949.0	949.0	948.5	947.9	947.3	946.7	945.8
132.5°	998.6	998.8	998.5	998.3	998.1	997.8	997.3	996.7	996.1	995.5	995.0
135°	1070.2	1071.1	1071.1	1071.1	1071.1	1071.1	1070.5	1069.9	1069.4	1068.8	1068.0
137.5°	1139.7	1140.4	1140.8	1141.3	1141.8	1142.2	1141.4	1140.7	1140.0	1139.2	1138.9
140°	1187.6	1187.9	1187.9	1187.9	1187.9	1187.9	1187.6	1187.3	1187.1	1186.7	1186.5
142.5°	1232.3	1232.4	1232.2	1232.0	1231.7	1231.5	1231.5	1231.4	1231.3	1231.3	1231.2
145°	1296.4	1297.1	1297.4	1297.7	1298.0	1298.2	1298.0	1297.7	1297.4	1297.1	1296.5
147.5°	1358.6	1359.2	1358.9	1358.7	1358.5	1358.2	1358.0	1357.8	1357.5	1357.3	1357.0
150°	1395.1	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.5
152.5°	1428.5	1429.0	1429.2	1429.4	1429.7	1429.9	1430.6	1431.2	1431.9	1432.6	1432.6
155°	1480.0	1479.9	1479.5	1479.3	1479.0	1478.7	1479.9	1481.0	1482.1	1483.3	1483.3
157.5°	1523.6	1523.4	1523.3	1523.2	1523.2	1523.1	1524.0	1524.8	1525.7	1526.6	1526.5
160°	1551.5	1551.3	1551.0	1550.7	1550.4	1550.1	1551.0	1551.9	1552.7	1553.6	1553.2
162.5°	1574.6	1574.1	1573.8	1573.6	1573.2	1573.0	1574.5	1576.1	1577.6	1579.2	1579.2
165°	1607.7	1607.0	1606.4	1605.8	1605.2	1604.6	1606.4	1608.1	1609.8	1611.5	1611.9
167.5°	1632.0	1631.4	1631.5	1631.5	1631.6	1631.7	1633.4	1635.1	1636.8	1638.6	1638.6
170°	1645.6	1645.0	1645.3	1645.6	1645.9	1646.1	1647.9	1649.7	1651.4	1653.1	1652.9
172.5°	1656.9	1656.3	1656.4	1656.5	1656.5	1656.6	1658.5	1660.5	1662.4	1664.4	1664.4
175°	1670.3	1669.4	1669.1	1668.8	1668.5	1668.3	1670.3	1672.3	1674.3	1676.4	1676.4
177.5°	1676.1	1675.5	1675.5	1675.5	1675.5	1675.5	1677.1	1678.8	1680.3	1682.0	1681.9
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	18.4	18.0	17.7	18.3	17.7	18.0	18.4	17.3	17.1	17.7	16.9
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0
92.5°	56.6	56.9	57.3	57.6	57.3	56.9	56.6	56.2	55.5	54.5	53.5
95°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.1	101.3	100.4
97.5°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.2	159.2	158.2
100°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.0	200.4	199.8
102.5°	246.2	246.5	246.7	246.9	246.7	246.5	246.2	246.0	245.5	244.7	243.8
105°	314.2	315.0	315.9	316.8	315.9	315.0	314.2	313.3	312.5	311.6	310.7
107.5°	385.0	385.0	384.9	384.8	384.9	385.0	385.0	385.0	384.7	383.8	383.1
110°	431.0	431.9	432.7	433.6	432.7	431.9	431.0	430.2	430.0	430.6	431.2



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.9	483.1	483.3	483.5	483.3	483.1	482.9	482.8	482.8	482.8	482.9
115°	561.7	561.5	561.1	560.9	561.1	561.5	561.7	562.0	562.3	562.6	562.8
117.5°	636.3	635.8	635.2	634.6	635.2	635.8	636.3	636.9	637.7	638.7	639.6
120°	689.0	689.5	690.1	690.7	690.1	689.5	689.0	688.4	688.8	690.3	691.6
122.5°	740.5	739.5	738.5	737.4	738.5	739.5	740.5	741.6	742.6	743.6	744.5
125°	819.6	819.1	818.5	817.9	818.5	819.1	819.6	820.2	820.8	821.4	821.9
127.5°	893.8	893.4	892.9	892.4	892.9	893.4	893.8	894.2	894.8	895.4	896.0
130°	944.7	943.6	942.4	941.2	942.4	943.6	944.7	945.8	946.7	947.3	947.9
132.5°	994.5	994.1	993.6	993.2	993.6	994.1	994.5	995.0	995.5	996.1	996.7
135°	1067.1	1066.3	1065.4	1064.5	1065.4	1066.3	1067.1	1068.0	1068.8	1069.4	1069.9
137.5°	1139.1	1139.3	1139.4	1139.6	1139.4	1139.3	1139.1	1138.9	1139.2	1140.0	1140.7
140°	1186.2	1185.9	1185.6	1185.3	1185.6	1185.9	1186.2	1186.5	1186.7	1187.1	1187.3
142.5°	1231.1	1231.1	1231.1	1231.0	1231.1	1231.1	1231.1	1231.2	1231.3	1231.3	1231.4
145°	1295.6	1294.8	1293.9	1293.0	1293.9	1294.8	1295.6	1296.5	1297.1	1297.4	1297.7
147.5°	1356.8	1356.5	1356.2	1355.9	1356.2	1356.5	1356.8	1357.0	1357.3	1357.5	1357.8
150°	1395.2	1394.9	1394.6	1394.3	1394.6	1394.9	1395.2	1395.5	1395.6	1395.6	1395.6
152.5°	1431.8	1431.2	1430.4	1429.6	1430.4	1431.2	1431.8	1432.6	1432.6	1431.9	1431.2
155°	1482.1	1481.0	1479.9	1478.7	1479.9	1481.0	1482.1	1483.3	1483.3	1482.1	1481.0
157.5°	1525.5	1524.6	1523.5	1522.6	1523.5	1524.6	1525.5	1526.5	1526.6	1525.7	1524.8
160°	1551.9	1550.4	1548.9	1547.5	1548.9	1550.4	1551.9	1553.2	1553.6	1552.7	1551.9
162.5°	1577.8	1576.4	1574.9	1573.5	1574.9	1576.4	1577.8	1579.2	1579.2	1577.6	1576.1
165°	1610.7	1609.6	1608.3	1607.2	1608.3	1609.6	1610.7	1611.9	1611.5	1609.8	1608.1
167.5°	1636.8	1635.0	1633.1	1631.3	1633.1	1635.0	1636.8	1638.6	1638.6	1636.8	1635.1
170°	1651.0	1648.9	1646.9	1644.9	1646.9	1648.9	1651.0	1652.9	1653.1	1651.4	1649.7
172.5°	1662.3	1660.4	1658.3	1656.3	1658.3	1660.4	1662.3	1664.4	1664.4	1662.4	1660.5
175°	1674.3	1672.3	1670.3	1668.3	1670.3	1672.3	1674.3	1676.4	1676.4	1674.3	1672.3
177.5°	1680.0	1678.2	1676.4	1674.5	1676.4	1678.2	1680.0	1681.9	1682.0	1680.3	1678.8
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



TEST NUMBER: P333092-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	16.5	16.7	16.2	15.2	15.8	15.3	15.2	14.6	15.4	16.2	17.0
90°	30.3	28.6	26.3	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9
92.5°	52.4	51.4	49.8	48.2	46.6	44.9	42.4	38.7	35.0	31.4	27.8
95°	99.5	98.7	96.7	94.6	92.6	90.6	88.3	85.7	83.1	80.5	77.9
97.5°	157.0	156.0	153.7	151.3	149.0	146.6	144.4	142.3	140.2	138.1	136.0
100°	199.2	198.6	196.0	193.5	190.9	188.2	186.4	185.2	184.1	182.9	181.8
102.5°	243.1	242.3	239.9	237.5	235.1	232.8	231.4	230.9	230.5	230.0	229.5
105°	309.9	309.0	307.8	306.7	305.5	304.4	303.7	303.3	303.1	302.8	302.5
107.5°	382.2	381.4	381.3	381.1	380.9	380.7	380.5	380.1	379.8	379.4	379.1
110°	431.7	432.3	432.6	432.9	433.2	433.5	433.3	432.7	432.1	431.6	431.0



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	483.1	483.2	483.7	484.2	484.7	485.3	485.5	485.3	485.3	485.2	485.0
115°	563.2	563.4	564.0	564.6	565.2	565.8	566.0	566.0	566.0	566.0	566.0
117.5°	640.6	641.6	642.0	642.4	642.8	643.3	643.3	643.1	642.8	642.6	642.4
120°	693.1	694.6	695.4	696.3	697.2	698.0	697.8	696.7	695.6	694.4	693.3
122.5°	745.5	746.5	746.9	747.3	747.7	748.1	748.0	747.6	747.2	746.7	746.2
125°	822.5	823.1	823.4	823.6	824.0	824.2	824.4	824.4	824.4	824.4	824.4
127.5°	896.5	897.1	897.6	898.0	898.5	899.0	898.7	897.9	897.0	896.1	895.3
130°	948.5	949.0	949.0	949.0	949.0	949.0	948.6	947.7	946.8	946.0	945.1
132.5°	997.3	997.8	998.1	998.3	998.5	998.8	998.6	997.9	997.3	996.7	996.0
135°	1070.5	1071.1	1071.1	1071.1	1071.1	1071.1	1070.2	1068.5	1066.7	1065.0	1063.2
137.5°	1141.4	1142.2	1141.8	1141.3	1140.8	1140.4	1139.7	1138.9	1138.1	1137.3	1136.5
140°	1187.6	1187.9	1187.9	1187.9	1187.9	1187.9	1187.6	1187.1	1186.5	1185.9	1185.3
142.5°	1231.5	1231.5	1231.7	1232.0	1232.2	1232.4	1232.3	1231.7	1231.1	1230.5	1229.9
145°	1298.0	1298.2	1298.0	1297.7	1297.4	1297.1	1296.4	1295.2	1294.1	1292.9	1291.8
147.5°	1358.0	1358.2	1358.5	1358.7	1358.9	1359.2	1358.6	1357.2	1355.8	1354.4	1353.1
150°	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.1	1393.9	1392.8	1391.5	1390.4
152.5°	1430.6	1429.9	1429.7	1429.4	1429.2	1429.0	1428.5	1427.8	1427.1	1426.4	1425.7
155°	1479.9	1478.7	1479.0	1479.3	1479.5	1479.9	1480.0	1480.0	1480.0	1480.0	1480.0
157.5°	1524.0	1523.1	1523.2	1523.2	1523.3	1523.4	1523.6	1524.1	1524.7	1525.2	1525.7
160°	1551.0	1550.1	1550.4	1550.7	1551.0	1551.3	1551.5	1551.9	1552.1	1552.4	1552.7
162.5°	1574.5	1573.0	1573.2	1573.6	1573.8	1574.1	1574.6	1575.4	1576.1	1576.9	1577.6
165°	1606.4	1604.6	1605.2	1605.8	1606.4	1607.0	1607.7	1608.5	1609.4	1610.2	1611.1
167.5°	1633.4	1631.7	1631.6	1631.5	1631.5	1631.4	1632.0	1633.2	1634.4	1635.6	1636.8
170°	1647.9	1646.1	1645.9	1645.6	1645.3	1645.0	1645.6	1647.0	1648.5	1649.9	1651.4
172.5°	1658.5	1656.6	1656.5	1656.5	1656.4	1656.3	1656.9	1658.1	1659.3	1660.5	1661.7
175°	1670.3	1668.3	1668.5	1668.8	1669.1	1669.4	1670.3	1671.7	1673.2	1674.6	1676.0
177.5°	1677.1	1675.5	1675.5	1675.5	1675.5	1675.5	1676.1	1677.2	1678.4	1679.6	1680.7
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



TEST NUMBER: P333092-935

CATALOG NUMBER: S124RDIW-S1020D1560U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	17.1	16.4	15.1	15.2	15.8	15.2	16.2	16.7	17.1	17.0	18.3
90°	7.1	10.2	13.4	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0
92.5°	31.4	35.0	38.7	42.4	44.9	46.6	48.2	49.8	51.4	52.4	53.5
95°	80.5	83.1	85.7	88.3	90.6	92.6	94.6	96.7	98.7	99.5	100.4
97.5°	138.1	140.2	142.3	144.4	146.6	149.0	151.3	153.7	156.0	157.0	158.2
100°	182.9	184.1	185.2	186.4	188.2	190.9	193.5	196.0	198.6	199.2	199.8
102.5°	230.0	230.5	230.9	231.4	232.8	235.1	237.5	239.9	242.3	243.1	243.8
105°	302.8	303.1	303.3	303.7	304.4	305.5	306.7	307.8	309.0	309.9	310.7
107.5°	379.4	379.8	380.1	380.5	380.7	380.9	381.1	381.3	381.4	382.2	383.1
110°	431.6	432.1	432.7	433.3	433.5	433.2	432.9	432.6	432.3	431.7	431.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	485.2	485.3	485.3	485.5	485.3	484.7	484.2	483.7	483.2	483.1	482.9
115°	566.0	566.0	566.0	566.0	565.8	565.2	564.6	564.0	563.4	563.2	562.8
117.5°	642.6	642.8	643.1	643.3	643.3	642.8	642.4	642.0	641.6	640.6	639.6
120°	694.4	695.6	696.7	697.8	698.0	697.2	696.3	695.4	694.6	693.1	691.6
122.5°	746.7	747.2	747.6	748.0	748.1	747.7	747.3	746.9	746.5	745.5	744.5
125°	824.4	824.4	824.4	824.4	824.2	824.0	823.6	823.4	823.1	822.5	821.9
127.5°	896.1	897.0	897.9	898.7	899.0	898.5	898.0	897.6	897.1	896.5	896.0
130°	946.0	946.8	947.7	948.6	949.0	949.0	949.0	949.0	949.0	948.5	947.9
132.5°	996.7	997.3	997.9	998.6	998.8	998.5	998.3	998.1	997.8	997.3	996.7
135°	1065.0	1066.7	1068.5	1070.2	1071.1	1071.1	1071.1	1071.1	1071.1	1070.5	1069.9
137.5°	1137.3	1138.1	1138.9	1139.7	1140.4	1140.8	1141.3	1141.8	1142.2	1141.4	1140.7
140°	1185.9	1186.5	1187.1	1187.6	1187.9	1187.9	1187.9	1187.9	1187.9	1187.6	1187.3
142.5°	1230.5	1231.1	1231.7	1232.3	1232.4	1232.2	1232.0	1231.7	1231.5	1231.5	1231.4
145°	1292.9	1294.1	1295.2	1296.4	1297.1	1297.4	1297.7	1298.0	1298.2	1298.0	1297.7
147.5°	1354.4	1355.8	1357.2	1358.6	1359.2	1358.9	1358.7	1358.5	1358.2	1358.0	1357.8
150°	1391.5	1392.8	1393.9	1395.1	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6	1395.6
152.5°	1426.4	1427.1	1427.8	1428.5	1429.0	1429.2	1429.4	1429.7	1429.9	1430.6	1431.2
155°	1480.0	1480.0	1480.0	1480.0	1479.9	1479.5	1479.3	1479.0	1478.7	1479.9	1481.0
157.5°	1525.2	1524.7	1524.1	1523.6	1523.4	1523.3	1523.2	1523.2	1523.1	1524.0	1524.8
160°	1552.4	1552.1	1551.9	1551.5	1551.3	1551.0	1550.7	1550.4	1550.1	1551.0	1551.9
162.5°	1576.9	1576.1	1575.4	1574.6	1574.1	1573.8	1573.6	1573.2	1573.0	1574.5	1576.1
165°	1610.2	1609.4	1608.5	1607.7	1607.0	1606.4	1605.8	1605.2	1604.6	1606.4	1608.1
167.5°	1635.6	1634.4	1633.2	1632.0	1631.4	1631.5	1631.5	1631.6	1631.7	1633.4	1635.1
170°	1649.9	1648.5	1647.0	1645.6	1645.0	1645.3	1645.6	1645.9	1646.1	1647.9	1649.7
172.5°	1660.5	1659.3	1658.1	1656.9	1656.3	1656.4	1656.5	1656.5	1656.6	1658.5	1660.5
175°	1674.6	1673.2	1671.7	1670.3	1669.4	1669.1	1668.8	1668.5	1668.3	1670.3	1672.3
177.5°	1679.6	1678.4	1677.2	1676.1	1675.5	1675.5	1675.5	1675.5	1675.5	1677.1	1678.8
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	17.7	17.6	18.3	17.9	18.0	17.7	18.3
90°	33.8	35.5	36.7	37.2	37.8	38.4	38.9
92.5°	54.5	55.5	56.2	56.6	56.9	57.3	57.6
95°	101.3	102.1	102.5	102.5	102.5	102.5	102.5
97.5°	159.2	160.2	160.7	160.7	160.7	160.7	160.7
100°	200.4	201.0	201.2	201.2	201.2	201.2	201.2
102.5°	244.7	245.5	246.0	246.2	246.5	246.7	246.9
105°	311.6	312.5	313.3	314.2	315.0	315.9	316.8
107.5°	383.8	384.7	385.0	385.0	385.0	384.9	384.8
110°	430.6	430.0	430.2	431.0	431.9	432.7	433.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	482.8	482.8	482.8	482.9	483.1	483.3	483.5
115°	562.6	562.3	562.0	561.7	561.5	561.1	560.9
117.5°	638.7	637.7	636.9	636.3	635.8	635.2	634.6
120°	690.3	688.8	688.4	689.0	689.5	690.1	690.7
122.5°	743.6	742.6	741.6	740.5	739.5	738.5	737.4
125°	821.4	820.8	820.2	819.6	819.1	818.5	817.9
127.5°	895.4	894.8	894.2	893.8	893.4	892.9	892.4
130°	947.3	946.7	945.8	944.7	943.6	942.4	941.2
132.5°	996.1	995.5	995.0	994.5	994.1	993.6	993.2
135°	1069.4	1068.8	1068.0	1067.1	1066.3	1065.4	1064.5
137.5°	1140.0	1139.2	1138.9	1139.1	1139.3	1139.4	1139.6
140°	1187.1	1186.7	1186.5	1186.2	1185.9	1185.6	1185.3
142.5°	1231.3	1231.3	1231.2	1231.1	1231.1	1231.1	1231.0
145°	1297.4	1297.1	1296.5	1295.6	1294.8	1293.9	1293.0
147.5°	1357.5	1357.3	1357.0	1356.8	1356.5	1356.2	1355.9
150°	1395.6	1395.6	1395.5	1395.2	1394.9	1394.6	1394.3
152.5°	1431.9	1432.6	1432.6	1431.8	1431.2	1430.4	1429.6
155°	1482.1	1483.3	1483.3	1482.1	1481.0	1479.9	1478.7
157.5°	1525.7	1526.6	1526.5	1525.5	1524.6	1523.5	1522.6
160°	1552.7	1553.6	1553.2	1551.9	1550.4	1548.9	1547.5
162.5°	1577.6	1579.2	1579.2	1577.8	1576.4	1574.9	1573.5
165°	1609.8	1611.5	1611.9	1610.7	1609.6	1608.3	1607.2
167.5°	1636.8	1638.6	1638.6	1636.8	1635.0	1633.1	1631.3
170°	1651.4	1653.1	1652.9	1651.0	1648.9	1646.9	1644.9
172.5°	1662.4	1664.4	1664.4	1662.3	1660.4	1658.3	1656.3
175°	1674.3	1676.4	1676.4	1674.3	1672.3	1670.3	1668.3
177.5°	1680.3	1682.0	1681.9	1680.0	1678.2	1676.4	1674.5
180°	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6	1678.6

(END OF REPORT)