

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: P333003-927

Luminaire Tested: **SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333003-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7241.8 lumens
Efficiency: N/A
Efficacy: 108.4 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

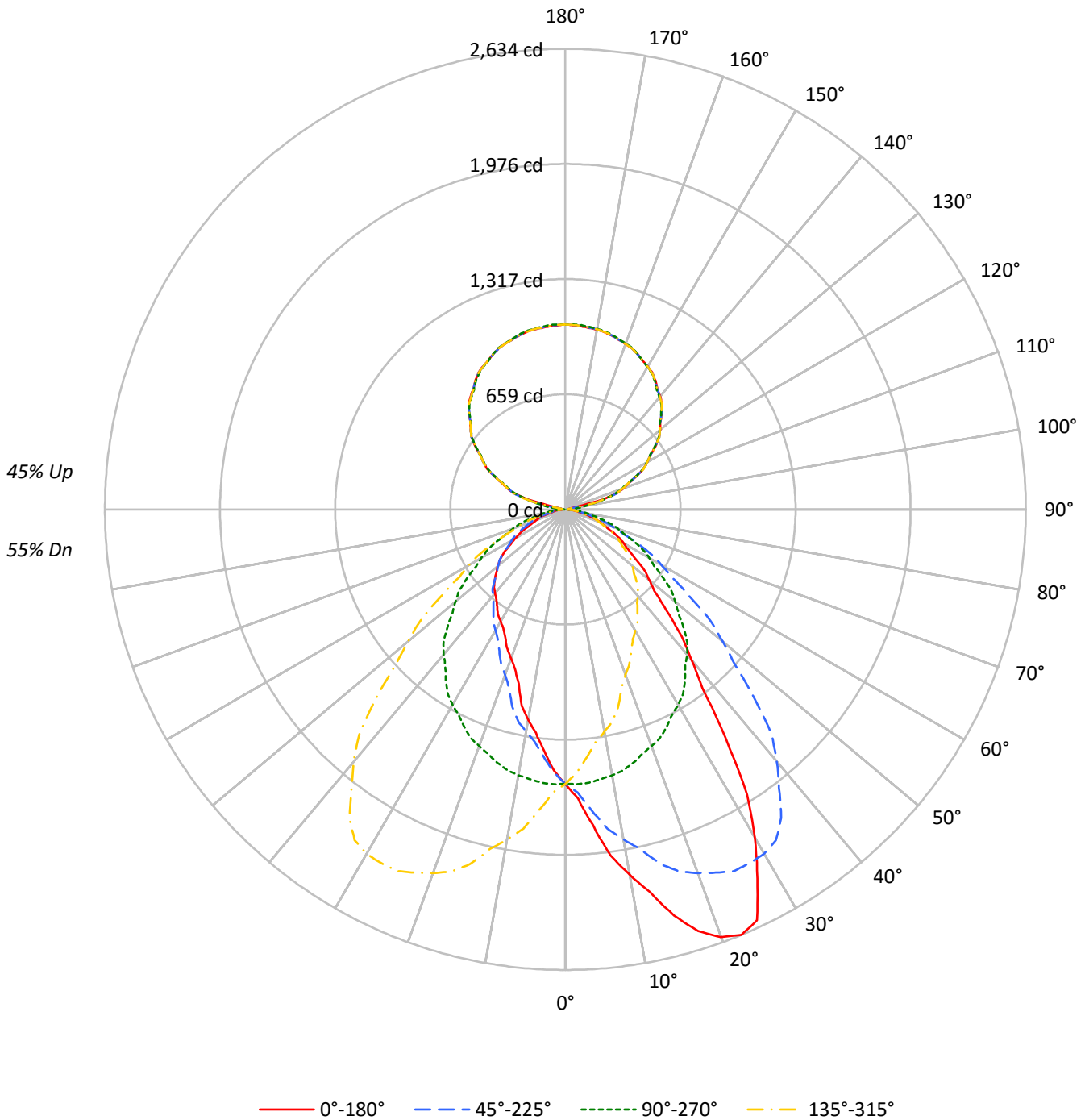
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	48	46	45	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	39	35
4	76	66	58	52	71	62	55	49	53	48	44	46	42	39	39	36	34	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	30	26
6	65	53	45	39	60	50	43	37	43	38	34	38	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12674	12674	12674	12674
5°	14699	12712	11235	12712
10°	17390	12656	10027	12656
15°	20088	12538	8616	12538
20°	22365	12378	7792	12378
25°	23087	12219	7234	12219
30°	20211	12028	6898	12028
35°	15733	11744	6695	11744
40°	11798	11418	6585	11418
45°	9315	10896	6528	10896
50°	7863	10295	6339	10295
55°	6854	9633	6000	9633
60°	6168	8946	5310	8946
65°	5436	8202	4567	8202
70°	4898	7435	4121	7435
75°	4105	6591	3512	6591
80°	3468	5616	3292	5616
85°	2927	4400	2927	4400



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.1
10°-20°	458.8	6.3
20°-30°	717.6	9.9
30°-40°	797.8	11.0
40°-50°	707.8	9.8
50°-60°	551.5	7.6
60°-70°	361.1	5.0
70°-80°	177.6	2.5
80°-90°	46.9	0.6
90°-100°	36.2	0.5
100°-110°	230.6	3.2
110°-120°	441.1	6.1
120°-130°	559.9	7.7
130°-140°	599.1	8.3
140°-150°	560.2	7.7
150°-160°	451.8	6.2
160°-170°	291.4	4.0
170°-180°	100.4	1.4
0°-30°	1328.5	18.3
0°-40°	2126.3	29.4
0°-60°	3385.7	46.8
0°-90°	3971.2	54.8
90°-120°	707.8	9.8
90°-150°	2427.0	33.5
90°-180°	3271.0	45.2
0°-180°	7241.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1570	1570	1570	1570	1570	
5°	1814	1569	1386	1569	1814	183
15°	2404	1500	1031	1500	2404	683
25°	2592	1372	812	1372	2592	1150
35°	1596	1192	679	1192	1596	1001
45°	816	954	572	954	816	646
55°	487	684	426	684	487	443
65°	285	429	239	429	285	286
75°	132	211	113	211	132	145
85°	32	48	32	48	32	36
90°	24	2	24	2	24	12
95°	23	44	23	44	23	18
105°	225	238	225	238	225	197
115°	448	444	448	444	448	443
125°	630	625	630	625	630	561
135°	780	775	780	775	780	601
145°	898	894	898	894	898	561
155°	979	980	979	980	979	451
165°	1029	1034	1029	1034	1029	291
175°	1051	1057	1051	1057	1051	100
180°	1057	1057	1057	1057	1057	



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1655.8	1660.4	1655.8	1655.3	1650.3	1648.8	1646.7	1640.1	1628.0	1621.0	1622.5
5°	1813.9	1829.8	1820.9	1819.6	1805.8	1791.8	1783.0	1762.8	1741.2	1726.7	1714.7
7.5°	1996.9	2006.0	2000.4	1991.5	1969.0	1956.3	1935.8	1909.1	1870.5	1841.0	1814.1
10°	2121.4	2128.9	2126.5	2110.0	2093.5	2060.0	2041.1	2003.7	1955.0	1916.4	1880.4
12.5°	2243.8	2251.9	2229.7	2230.4	2199.3	2172.9	2142.8	2095.8	2039.6	1989.8	1944.6
15°	2403.5	2393.3	2393.3	2380.7	2345.9	2309.2	2278.2	2228.9	2158.1	2098.6	2036.0
17.5°	2528.4	2532.0	2526.7	2497.0	2469.6	2431.7	2374.9	2317.3	2251.5	2171.7	2107.7
20°	2603.3	2603.3	2597.6	2577.4	2542.0	2501.5	2440.2	2377.5	2294.0	2213.7	2141.6
22.5°	2633.7	2635.7	2629.0	2612.3	2580.5	2540.9	2488.7	2425.1	2339.1	2248.6	2159.3
25°	2591.9	2604.0	2605.2	2600.8	2591.3	2567.2	2522.4	2457.2	2380.0	2282.0	2185.9
27.5°	2379.6	2394.8	2408.2	2430.0	2459.1	2474.3	2476.3	2443.2	2375.8	2281.5	2184.8
30°	2168.1	2180.8	2221.9	2275.7	2317.5	2355.4	2388.3	2397.1	2359.2	2274.4	2172.6
32.5°	1933.4	1950.6	1991.7	2049.5	2119.1	2183.3	2257.2	2294.9	2293.9	2243.1	2148.8
35°	1596.4	1609.1	1647.0	1707.7	1791.2	1886.7	2003.7	2094.8	2156.8	2152.4	2094.8
37.5°	1287.5	1301.8	1340.1	1390.4	1471.4	1589.7	1702.9	1828.4	1943.0	2007.4	1988.1
40°	1119.5	1120.1	1157.5	1209.3	1285.2	1388.3	1511.6	1650.7	1778.5	1882.9	1903.1
42.5°	986.9	987.1	1011.7	1067.6	1122.3	1219.3	1337.0	1475.2	1624.8	1745.3	1798.9
45°	815.9	821.6	841.9	875.4	918.4	1000.6	1094.8	1223.2	1390.8	1533.7	1622.9
47.5°	690.9	699.3	712.2	739.5	773.8	828.5	906.5	1021.8	1158.2	1315.4	1442.3
50°	626.1	627.4	643.9	659.0	688.8	732.5	800.7	896.8	1022.1	1173.2	1314.3
52.5°	570.5	570.2	580.1	599.4	623.5	657.5	712.6	800.2	911.2	1046.8	1192.4
55°	487.0	490.2	497.7	512.9	531.3	555.3	599.0	664.7	752.0	867.8	1000.0
57.5°	423.5	425.2	431.1	437.5	454.4	471.8	504.6	550.2	623.9	718.7	841.9
60°	382.0	382.6	384.5	394.0	407.3	423.7	445.9	484.5	546.4	633.1	730.6
62.5°	341.5	342.7	345.6	352.5	362.8	374.1	397.4	428.3	479.7	553.7	641.4
65°	284.6	285.3	289.7	292.2	300.4	310.5	327.6	348.5	383.9	445.9	512.3
67.5°	237.8	237.8	238.1	241.5	247.2	253.9	264.1	280.8	307.5	345.6	404.2
70°	207.5	207.5	208.7	210.6	213.8	219.4	225.1	237.8	257.5	288.4	333.4
72.5°	179.1	179.6	180.9	181.3	182.9	187.6	191.8	199.9	214.4	237.8	274.1
75°	131.6	133.5	136.7	139.2	142.3	141.6	146.1	151.1	155.6	169.5	190.4
77.5°	97.9	96.9	97.3	99.4	99.8	100.4	103.6	107.5	110.8	117.4	124.8
80°	74.6	74.6	76.5	77.2	76.5	77.2	80.3	82.2	83.5	86.0	93.0
82.5°	56.4	57.4	56.8	57.4	57.8	58.5	61.1	61.5	62.7	63.8	66.7
85°	31.6	32.2	32.9	31.6	31.6	31.6	32.9	33.5	34.8	34.1	35.4
87.5°	15.8	15.3	15.8	15.7	16.1	15.4	15.8	16.6	15.3	15.6	15.4
90°	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5	18.5	17.4	16.0
92.5°	21.9	21.8	21.7	21.6	21.5	21.0	20.0	18.9	17.8	16.8	15.4
95°	22.9	22.7	22.6	22.4	22.3	21.6	20.6	19.5	18.5	17.4	17.2
97.5°	22.2	21.9	21.8	21.6	21.5	21.3	21.2	21.1	21.0	20.9	40.5
100°	22.2	21.9	21.8	21.6	21.5	22.8	25.8	28.8	31.8	34.8	59.0
102.5°	22.8	22.7	22.7	22.7	22.7	38.7	71.0	103.2	135.4	167.6	170.8
105°	225.4	231.7	238.1	244.4	250.7	253.0	251.4	249.9	248.3	246.8	245.9
107.5°	314.1	313.5	312.8	312.1	311.4	310.7	310.0	309.2	308.4	307.6	306.4
110°	352.7	352.2	351.6	351.1	350.6	350.1	349.8	349.4	349.1	348.7	347.7



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	391.3	390.6	390.0	389.3	388.6	388.3	388.4	388.5	388.6	388.6	388.1
115°	447.6	447.6	447.6	447.6	447.6	447.4	447.1	446.7	446.4	446.0	446.2
117.5°	504.9	504.9	505.0	505.1	505.2	505.2	505.3	505.3	505.4	505.5	505.1
120°	540.9	541.3	541.6	541.9	542.3	542.3	541.9	541.6	541.3	540.9	541.1
122.5°	576.3	576.7	577.0	577.4	577.7	577.8	577.6	577.4	577.2	576.9	576.7
125°	629.5	629.3	629.2	629.0	628.8	628.4	627.9	627.4	626.9	626.3	626.7
127.5°	676.1	676.3	676.4	676.6	676.7	676.8	676.9	677.1	677.2	677.2	676.4
130°	707.8	707.8	707.8	707.8	707.8	707.7	707.5	707.3	707.2	707.0	706.5
132.5°	736.9	737.0	737.1	737.3	737.4	737.4	737.3	737.0	736.9	736.7	736.0
135°	780.5	780.1	779.8	779.5	779.1	778.8	778.4	778.1	777.7	777.4	776.7
137.5°	817.8	817.9	818.1	818.2	818.2	818.2	817.8	817.4	817.0	816.6	815.8
140°	843.8	843.6	843.4	843.3	843.1	842.7	842.2	841.7	841.1	840.7	840.3
142.5°	865.3	865.3	865.2	865.2	865.1	865.0	864.6	864.2	863.8	863.4	863.2
145°	898.3	898.0	897.6	897.3	897.0	896.7	896.5	896.4	896.2	896.0	896.0
147.5°	925.7	925.6	925.3	925.2	925.0	924.9	924.7	924.6	924.5	924.3	924.5
150°	943.4	943.3	943.1	942.9	942.7	942.6	942.6	942.6	942.6	942.6	942.9
152.5°	958.6	958.7	958.9	958.9	959.0	958.9	958.7	958.4	958.1	957.8	958.1
155°	979.1	979.5	980.1	980.6	981.1	981.0	980.3	979.6	978.9	978.3	978.7
157.5°	996.1	997.0	997.9	998.9	999.7	999.7	998.9	997.9	997.0	996.1	996.7
160°	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7	1010.7	1009.6	1008.5	1007.5	1007.7
162.5°	1016.4	1017.6	1018.7	1019.9	1021.1	1021.2	1020.2	1019.1	1018.0	1017.0	1017.2
165°	1028.8	1030.4	1032.0	1033.6	1035.1	1035.2	1033.9	1032.5	1031.0	1029.6	1029.6
167.5°	1038.2	1039.9	1041.7	1043.5	1045.2	1045.3	1043.8	1042.2	1040.7	1039.1	1039.3
170°	1043.9	1045.6	1047.4	1049.2	1050.9	1051.1	1049.6	1048.3	1046.9	1045.4	1045.3
172.5°	1047.0	1048.9	1050.8	1052.7	1054.6	1054.9	1053.4	1052.1	1050.7	1049.2	1049.1
175°	1051.0	1053.1	1055.2	1057.3	1059.4	1059.7	1058.1	1056.5	1054.9	1053.4	1053.2
177.5°	1053.5	1055.2	1056.9	1058.6	1060.3	1060.6	1059.4	1058.3	1057.2	1056.1	1055.7
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1617.4	1610.3	1606.8	1598.7	1589.0	1584.0	1579.5	1572.9	1564.2	1555.1	1548.6
5°	1699.5	1684.3	1665.3	1642.6	1622.3	1602.7	1585.6	1568.6	1549.0	1528.8	1508.5
7.5°	1783.8	1753.9	1721.6	1684.3	1648.0	1615.0	1584.6	1555.5	1522.7	1493.2	1466.3
10°	1842.5	1802.0	1757.1	1709.6	1662.2	1621.0	1580.6	1543.9	1503.4	1467.4	1437.0
12.5°	1890.0	1842.5	1788.4	1729.3	1672.3	1622.5	1576.0	1528.2	1482.2	1443.1	1402.6
15°	1968.9	1903.8	1831.1	1760.2	1686.2	1618.5	1555.9	1500.2	1447.8	1392.7	1354.2
17.5°	2023.2	1945.9	1857.5	1772.3	1685.0	1605.1	1532.9	1466.6	1406.0	1349.9	1303.9
20°	2055.6	1970.2	1872.2	1775.4	1677.4	1592.0	1514.2	1440.8	1378.2	1317.5	1270.0
22.5°	2073.8	1979.3	1872.2	1770.8	1669.3	1576.8	1491.4	1415.0	1346.8	1286.1	1233.6
25°	2079.6	1978.4	1869.0	1752.6	1641.3	1543.3	1454.7	1371.8	1295.9	1235.2	1179.6
27.5°	2071.6	1952.3	1840.3	1720.9	1606.0	1502.7	1409.7	1322.6	1246.7	1181.5	1124.4
30°	2059.4	1931.6	1811.4	1687.5	1571.1	1471.8	1373.7	1290.3	1211.2	1143.5	1086.0
32.5°	2033.1	1906.3	1777.0	1650.0	1532.2	1429.8	1336.8	1252.8	1175.3	1106.1	1045.0
35°	1980.9	1852.5	1712.1	1581.8	1466.1	1359.9	1272.6	1191.6	1117.6	1043.6	979.1
37.5°	1912.2	1781.1	1641.4	1498.7	1382.8	1282.5	1202.5	1126.5	1054.2	986.7	915.2
40°	1847.5	1728.0	1583.7	1442.1	1323.2	1226.4	1152.4	1083.5	1010.7	943.6	872.2
42.5°	1769.1	1667.2	1521.5	1379.3	1261.9	1168.7	1099.8	1032.4	966.2	901.2	826.6
45°	1638.2	1561.0	1424.3	1287.8	1169.5	1077.1	1013.9	954.4	896.2	834.2	764.1
47.5°	1488.1	1435.8	1318.0	1178.1	1068.7	985.6	924.5	875.8	826.6	764.7	703.1
50°	1383.9	1350.4	1236.5	1108.7	1004.4	927.9	865.2	819.7	778.6	719.1	664.1
52.5°	1272.6	1254.7	1158.6	1036.4	935.6	860.5	807.1	766.0	724.5	675.1	623.6
55°	1103.0	1112.5	1030.9	925.3	830.4	767.2	718.5	684.4	649.0	607.2	567.4
57.5°	929.8	964.4	909.7	816.9	728.0	669.6	632.9	604.1	574.4	539.8	505.7
60°	826.0	855.1	824.1	742.5	664.7	610.4	576.2	554.1	524.3	492.7	466.8
62.5°	724.8	756.0	737.6	671.7	599.4	552.7	522.5	501.9	479.8	452.3	425.3
65°	597.7	617.9	609.1	563.6	512.3	472.5	444.7	429.4	409.2	389.0	365.0
67.5°	457.8	496.9	491.7	467.5	423.3	392.1	373.9	360.5	342.1	327.0	310.7
70°	376.4	412.4	411.8	392.1	368.1	339.0	326.4	315.0	298.5	284.0	270.7
72.5°	308.0	341.0	345.9	330.9	314.5	292.5	280.4	272.5	256.5	246.5	235.8
75°	215.7	239.7	246.1	246.1	238.4	227.0	216.3	211.3	199.9	191.0	184.7
77.5°	141.4	156.6	166.4	168.7	169.9	166.1	157.2	153.7	145.0	141.8	135.7
80°	99.9	110.0	121.4	125.2	128.4	127.1	123.3	120.8	112.6	109.4	106.9
82.5°	69.1	74.6	84.0	92.4	91.4	94.7	91.4	89.4	83.3	82.1	79.5
85°	36.0	36.7	37.9	43.6	46.8	48.1	48.7	47.5	45.6	45.6	41.1
87.5°	15.1	14.3	15.0	14.7	14.8	16.4	17.6	17.7	16.6	15.4	14.3
90°	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4	4.3	6.3	8.2
92.5°	13.9	12.5	11.2	10.4	10.3	10.1	10.1	10.0	10.1	10.1	10.3
95°	17.0	16.9	16.7	19.6	25.6	31.5	37.5	43.5	37.5	31.5	25.6
97.5°	60.1	79.7	99.3	107.3	103.5	99.8	96.1	92.4	96.1	99.8	103.5
100°	83.3	107.6	131.8	142.4	139.2	136.0	132.8	129.7	132.8	136.0	139.2
102.5°	174.0	177.1	180.3	180.7	178.4	176.1	173.8	171.4	173.8	176.1	178.4
105°	244.9	244.1	243.2	242.2	241.2	240.1	239.1	238.1	239.1	240.1	241.2
107.5°	305.2	304.0	302.9	302.0	301.4	301.0	300.4	299.8	300.4	301.0	301.4
110°	346.7	345.5	344.5	343.7	343.2	342.7	342.1	341.7	342.1	342.7	343.2



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.6	387.1	386.7	386.0	385.0	384.0	383.1	382.1	383.1	384.0	385.0
115°	446.4	446.6	446.7	446.6	446.0	445.5	445.0	444.4	445.0	445.5	446.0
117.5°	504.7	504.3	503.9	503.4	502.7	502.0	501.3	500.6	501.3	502.0	502.7
120°	541.3	541.5	541.6	541.4	540.7	540.0	539.2	538.5	539.2	540.0	540.7
122.5°	576.5	576.2	576.0	575.7	575.2	574.8	574.4	573.9	574.4	574.8	575.2
125°	627.0	627.4	627.7	627.6	626.9	626.1	625.4	624.7	625.4	626.1	626.9
127.5°	675.7	674.9	674.0	673.5	673.4	673.2	673.0	672.8	673.0	673.2	673.4
130°	705.9	705.4	704.9	704.5	704.3	704.2	704.0	703.9	704.0	704.2	704.3
132.5°	735.4	734.7	734.0	733.6	733.2	732.9	732.6	732.3	732.6	732.9	733.2
135°	775.9	775.2	774.5	774.3	774.4	774.7	774.8	775.0	774.8	774.7	774.4
137.5°	815.1	814.3	813.5	813.1	813.0	812.9	812.9	812.8	812.9	812.9	813.0
140°	840.0	839.6	839.2	838.8	838.5	838.2	837.8	837.5	837.8	838.2	838.5
142.5°	863.0	862.8	862.5	862.1	861.5	860.9	860.2	859.6	860.2	860.9	861.5
145°	896.0	896.0	896.0	895.7	895.2	894.7	894.1	893.6	894.1	894.7	895.2
147.5°	924.6	924.8	925.0	924.6	923.6	922.7	921.6	920.7	921.6	922.7	923.6
150°	943.0	943.2	943.3	943.1	942.4	941.7	941.0	940.2	941.0	941.7	942.4
152.5°	958.5	958.8	959.1	958.9	958.4	957.8	957.3	956.7	957.3	957.8	958.4
155°	979.3	979.9	980.3	980.5	980.3	980.2	980.0	979.9	980.0	980.2	980.3
157.5°	997.3	997.9	998.5	998.9	998.9	999.0	999.2	999.3	999.2	999.0	998.9
160°	1007.8	1008.1	1008.2	1008.5	1009.1	1009.6	1010.1	1010.7	1010.1	1009.6	1009.1
162.5°	1017.3	1017.5	1017.7	1018.1	1018.7	1019.5	1020.1	1020.8	1020.1	1019.5	1018.7
165°	1029.6	1029.6	1029.6	1030.1	1030.9	1031.8	1032.7	1033.6	1032.7	1031.8	1030.9
167.5°	1039.3	1039.4	1039.6	1040.1	1041.0	1041.9	1042.8	1043.7	1042.8	1041.9	1041.0
170°	1045.1	1044.9	1044.7	1045.2	1046.2	1047.3	1048.4	1049.4	1048.4	1047.3	1046.2
172.5°	1048.9	1048.7	1048.5	1049.0	1050.0	1051.1	1052.2	1053.2	1052.2	1051.1	1050.0
175°	1053.0	1052.8	1052.7	1053.1	1054.2	1055.2	1056.3	1057.3	1056.3	1055.2	1054.2
177.5°	1055.5	1055.2	1054.9	1055.3	1056.3	1057.2	1058.2	1059.2	1058.2	1057.2	1056.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1541.5	1536.4	1529.9	1522.3	1513.1	1505.1	1501.5	1504.6	1506.1	1502.1	1501.5
5°	1494.5	1478.8	1466.1	1447.2	1431.9	1419.3	1410.5	1406.7	1407.9	1397.8	1395.3
7.5°	1441.9	1423.1	1402.3	1379.8	1358.8	1340.2	1330.5	1325.2	1314.5	1309.9	1302.2
10°	1407.9	1382.6	1362.4	1335.8	1311.8	1289.7	1278.9	1270.0	1259.3	1254.2	1243.5
12.5°	1373.0	1343.6	1321.4	1293.8	1269.2	1242.6	1232.3	1215.9	1199.0	1188.4	1174.6
15°	1323.8	1288.4	1261.2	1228.3	1199.2	1168.9	1141.6	1111.3	1099.9	1075.9	1061.9
17.5°	1266.2	1230.3	1196.7	1152.5	1107.6	1069.9	1040.9	1011.9	994.4	979.1	972.0
20°	1228.3	1195.4	1148.6	1097.3	1047.4	1005.7	982.2	963.3	944.3	933.6	926.0
22.5°	1192.4	1150.3	1096.0	1040.7	990.7	958.1	938.3	918.8	903.3	893.1	883.0
25°	1132.2	1077.1	1019.5	956.3	922.2	893.7	872.2	856.3	846.9	833.6	828.5
27.5°	1070.3	1003.6	940.2	897.6	862.1	836.0	817.3	805.4	793.4	784.9	778.3
30°	1022.7	955.1	898.1	857.6	821.6	800.1	784.9	771.0	761.5	754.6	749.5
32.5°	975.7	908.0	860.2	816.7	788.2	767.2	751.0	740.6	733.2	724.2	721.1
35°	907.6	847.6	805.8	766.6	737.4	718.5	705.8	695.1	688.8	686.3	684.4
37.5°	842.2	793.0	748.1	716.0	690.1	675.1	660.2	654.9	650.5	646.0	648.1
40°	800.7	754.6	714.7	680.6	659.7	643.3	634.4	628.0	624.2	624.2	624.2
42.5°	764.8	719.6	680.8	650.2	629.3	615.4	605.5	600.2	599.0	598.5	601.5
45°	709.0	667.3	628.0	602.8	585.0	571.2	565.5	561.0	561.0	563.6	564.2
47.5°	653.7	614.7	583.1	554.8	538.6	529.9	525.0	522.7	522.9	525.5	528.4
50°	619.8	581.2	550.2	525.0	509.8	501.5	497.1	495.9	497.1	497.1	501.5
52.5°	582.9	548.3	517.8	496.6	479.4	471.7	469.3	467.5	468.3	470.3	472.2
55°	528.8	497.7	468.7	448.5	435.8	430.7	425.0	425.6	424.4	425.6	425.6
57.5°	474.5	446.6	419.6	403.5	392.4	385.1	378.8	380.6	378.7	378.5	377.5
60°	439.6	409.2	387.7	373.2	360.5	354.2	348.5	349.7	347.8	346.6	344.0
62.5°	401.6	376.4	355.8	341.8	331.7	324.3	318.6	317.3	313.0	308.6	303.1
65°	346.6	325.7	307.4	294.1	284.6	278.9	274.5	270.7	261.2	251.1	246.1
67.5°	293.1	278.1	260.9	249.7	242.0	234.6	226.1	219.6	210.7	205.2	202.0
70°	258.6	244.2	229.6	218.8	210.6	203.7	194.2	189.7	183.4	180.9	177.8
72.5°	225.8	212.2	198.8	189.0	180.2	174.8	167.4	163.0	160.2	159.1	156.0
75°	175.9	165.1	155.0	146.1	139.2	135.4	132.2	129.0	127.8	122.1	118.9
77.5°	128.3	121.2	114.9	108.5	103.6	101.1	95.0	91.3	89.2	86.5	85.9
80°	99.9	94.9	88.6	84.8	77.8	75.3	72.7	72.1	71.5	70.8	70.2
82.5°	75.2	70.1	63.8	61.5	59.6	58.1	56.6	55.9	55.3	55.7	55.5
85°	37.9	35.4	35.4	34.8	34.1	33.5	32.9	32.9	32.2	32.9	32.2
87.5°	14.7	14.5	14.8	14.0	14.8	15.1	14.8	15.1	15.8	15.0	15.1
90°	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5	20.6	21.6	22.3
92.5°	10.4	11.2	12.5	13.9	15.4	16.8	17.8	18.9	20.0	21.0	21.5
95°	19.6	16.7	16.9	17.0	17.2	17.4	18.5	19.5	20.6	21.6	22.3
97.5°	107.3	99.3	79.7	60.1	40.5	20.9	21.0	21.1	21.2	21.3	21.5
100°	142.4	131.8	107.6	83.3	59.0	34.8	31.8	28.8	25.8	22.8	21.5
102.5°	180.7	180.3	177.1	174.0	170.8	167.6	135.4	103.2	71.0	38.7	22.7
105°	242.2	243.2	244.1	244.9	245.9	246.8	248.3	249.9	251.4	253.0	250.7
107.5°	302.0	302.9	304.0	305.2	306.4	307.6	308.4	309.2	310.0	310.7	311.4
110°	343.7	344.5	345.5	346.7	347.7	348.7	349.1	349.4	349.8	350.1	350.6



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.0	386.7	387.1	387.6	388.1	388.6	388.6	388.5	388.4	388.3	388.6
115°	446.6	446.7	446.6	446.4	446.2	446.0	446.4	446.7	447.1	447.4	447.6
117.5°	503.4	503.9	504.3	504.7	505.1	505.5	505.4	505.3	505.3	505.2	505.2
120°	541.4	541.6	541.5	541.3	541.1	540.9	541.3	541.6	541.9	542.3	542.3
122.5°	575.7	576.0	576.2	576.5	576.7	576.9	577.2	577.4	577.6	577.8	577.7
125°	627.6	627.7	627.4	627.0	626.7	626.3	626.9	627.4	627.9	628.4	628.8
127.5°	673.5	674.0	674.9	675.7	676.4	677.2	677.2	677.1	676.9	676.8	676.7
130°	704.5	704.9	705.4	705.9	706.5	707.0	707.2	707.3	707.5	707.7	707.8
132.5°	733.6	734.0	734.7	735.4	736.0	736.7	736.9	737.0	737.3	737.4	737.4
135°	774.3	774.5	775.2	775.9	776.7	777.4	777.7	778.1	778.4	778.8	779.1
137.5°	813.1	813.5	814.3	815.1	815.8	816.6	817.0	817.4	817.8	818.2	818.2
140°	838.8	839.2	839.6	840.0	840.3	840.7	841.1	841.7	842.2	842.7	843.1
142.5°	862.1	862.5	862.8	863.0	863.2	863.4	863.8	864.2	864.6	865.0	865.1
145°	895.7	896.0	896.0	896.0	896.0	896.0	896.2	896.4	896.5	896.7	897.0
147.5°	924.6	925.0	924.8	924.6	924.5	924.3	924.5	924.6	924.7	924.9	925.0
150°	943.1	943.3	943.2	943.0	942.9	942.6	942.6	942.6	942.6	942.6	942.7
152.5°	958.9	959.1	958.8	958.5	958.1	957.8	958.1	958.4	958.7	958.9	959.0
155°	980.5	980.3	979.9	979.3	978.7	978.3	978.9	979.6	980.3	981.0	981.1
157.5°	998.9	998.5	997.9	997.3	996.7	996.1	997.0	997.9	998.9	999.7	999.7
160°	1008.5	1008.2	1008.1	1007.8	1007.7	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7
162.5°	1018.1	1017.7	1017.5	1017.3	1017.2	1017.0	1018.0	1019.1	1020.2	1021.2	1021.1
165°	1030.1	1029.6	1029.6	1029.6	1029.6	1029.6	1031.0	1032.5	1033.9	1035.2	1035.1
167.5°	1040.1	1039.6	1039.4	1039.3	1039.3	1039.1	1040.7	1042.2	1043.8	1045.3	1045.2
170°	1045.2	1044.7	1044.9	1045.1	1045.3	1045.4	1046.9	1048.3	1049.6	1051.1	1050.9
172.5°	1049.0	1048.5	1048.7	1048.9	1049.1	1049.2	1050.7	1052.1	1053.4	1054.9	1054.6
175°	1053.1	1052.7	1052.8	1053.0	1053.2	1053.4	1054.9	1056.5	1058.1	1059.7	1059.4
177.5°	1055.3	1054.9	1055.2	1055.5	1055.7	1056.1	1057.2	1058.3	1059.4	1060.6	1060.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1498.5	1499.5	1496.0	1494.9	1496.0	1499.5	1498.5	1501.5	1502.1	1506.1	1504.6
5°	1390.2	1388.9	1385.8	1386.4	1385.8	1388.9	1390.2	1395.3	1397.8	1407.9	1406.7
7.5°	1297.6	1292.7	1294.0	1289.0	1294.0	1292.7	1297.6	1302.2	1309.9	1314.5	1325.2
10°	1241.0	1234.0	1228.3	1223.2	1228.3	1234.0	1241.0	1243.5	1254.2	1259.3	1270.0
12.5°	1163.6	1157.5	1149.9	1151.4	1149.9	1157.5	1163.6	1174.6	1188.4	1199.0	1215.9
15°	1053.7	1044.3	1029.0	1030.9	1029.0	1044.3	1053.7	1061.9	1075.9	1099.9	1111.3
17.5°	960.8	960.8	953.9	955.5	953.9	960.8	960.8	972.0	979.1	994.4	1011.9
20°	912.7	908.2	908.9	907.0	908.9	908.2	912.7	926.0	933.6	944.3	963.3
22.5°	879.2	873.9	869.4	865.5	869.4	873.9	879.2	883.0	893.1	903.3	918.8
25°	822.8	819.0	813.4	812.1	813.4	819.0	822.8	828.5	833.6	846.9	856.3
27.5°	773.2	772.5	770.2	767.3	770.2	772.5	773.2	778.3	784.9	793.4	805.4
30°	744.4	743.1	741.9	740.0	741.9	743.1	744.4	749.5	754.6	761.5	771.0
32.5°	718.7	717.9	716.6	716.8	716.6	717.9	718.7	721.1	724.2	733.2	740.6
35°	681.8	681.2	679.9	679.3	679.9	681.2	681.8	684.4	686.3	688.8	695.1
37.5°	647.5	649.0	648.3	648.2	648.3	649.0	647.5	648.1	646.0	650.5	654.9
40°	623.6	624.2	625.5	624.9	625.5	624.2	623.6	624.2	624.2	624.2	628.0
42.5°	603.9	604.0	605.8	603.6	605.8	604.0	603.9	601.5	598.5	599.0	600.2
45°	568.6	572.4	571.8	571.8	571.8	572.4	568.6	564.2	563.6	561.0	561.0
47.5°	530.0	533.3	534.2	534.1	534.2	533.3	530.0	528.4	525.5	522.9	522.7
50°	504.7	503.4	505.3	504.7	505.3	503.4	504.7	501.5	497.1	497.1	495.9
52.5°	473.9	474.1	474.0	473.3	474.0	474.1	473.9	472.2	470.3	468.3	467.5
55°	426.3	426.9	425.6	426.3	425.6	426.9	426.3	425.6	425.6	424.4	425.6
57.5°	374.7	371.6	372.9	371.4	372.9	371.6	374.7	377.5	378.5	378.7	380.6
60°	337.8	332.7	331.4	328.9	331.4	332.7	337.8	344.0	346.6	347.8	349.7
62.5°	296.3	292.7	288.4	290.4	288.4	292.7	296.3	303.1	308.6	313.0	317.3
65°	241.0	238.4	236.5	239.1	236.5	238.4	241.0	246.1	251.1	261.2	270.7
67.5°	199.5	198.1	198.1	196.9	198.1	198.1	199.5	202.0	205.2	210.7	219.6
70°	177.8	175.9	175.9	174.6	175.9	175.9	177.8	177.8	180.9	183.4	189.7
72.5°	155.4	153.6	154.1	153.3	154.1	153.6	155.4	156.0	159.1	160.2	163.0
75°	115.1	111.9	111.9	112.6	111.9	111.9	115.1	118.9	122.1	127.8	129.0
77.5°	85.9	85.2	86.1	85.0	86.1	85.2	85.9	85.9	86.5	89.2	91.3
80°	70.2	69.6	68.9	70.8	68.9	69.6	70.2	70.2	70.8	71.5	72.1
82.5°	54.5	54.4	54.3	56.6	54.3	54.4	54.5	55.5	55.7	55.3	55.9
85°	32.9	31.6	32.9	31.6	32.9	31.6	32.9	32.2	32.9	32.2	32.9
87.5°	16.2	15.8	15.3	15.8	15.3	15.8	16.2	15.1	15.0	15.8	15.1
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5
92.5°	21.6	21.7	21.8	21.9	21.8	21.7	21.6	21.5	21.0	20.0	18.9
95°	22.4	22.6	22.7	22.9	22.7	22.6	22.4	22.3	21.6	20.6	19.5
97.5°	21.6	21.8	21.9	22.2	21.9	21.8	21.6	21.5	21.3	21.2	21.1
100°	21.6	21.8	21.9	22.2	21.9	21.8	21.6	21.5	22.8	25.8	28.8
102.5°	22.7	22.7	22.7	22.8	22.7	22.7	22.7	22.7	38.7	71.0	103.2
105°	244.4	238.1	231.7	225.4	231.7	238.1	244.4	250.7	253.0	251.4	249.9
107.5°	312.1	312.8	313.5	314.1	313.5	312.8	312.1	311.4	310.7	310.0	309.2
110°	351.1	351.6	352.2	352.7	352.2	351.6	351.1	350.6	350.1	349.8	349.4



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	389.3	390.0	390.6	391.3	390.6	390.0	389.3	388.6	388.3	388.4	388.5
115°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.4	447.1	446.7
117.5°	505.1	505.0	504.9	504.9	504.9	505.0	505.1	505.2	505.2	505.3	505.3
120°	541.9	541.6	541.3	540.9	541.3	541.6	541.9	542.3	542.3	541.9	541.6
122.5°	577.4	577.0	576.7	576.3	576.7	577.0	577.4	577.7	577.8	577.6	577.4
125°	629.0	629.2	629.3	629.5	629.3	629.2	629.0	628.8	628.4	627.9	627.4
127.5°	676.6	676.4	676.3	676.1	676.3	676.4	676.6	676.7	676.8	676.9	677.1
130°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.7	707.5	707.3
132.5°	737.3	737.1	737.0	736.9	737.0	737.1	737.3	737.4	737.4	737.3	737.0
135°	779.5	779.8	780.1	780.5	780.1	779.8	779.5	779.1	778.8	778.4	778.1
137.5°	818.2	818.1	817.9	817.8	817.9	818.1	818.2	818.2	818.2	817.8	817.4
140°	843.3	843.4	843.6	843.8	843.6	843.4	843.3	843.1	842.7	842.2	841.7
142.5°	865.2	865.2	865.3	865.3	865.3	865.2	865.2	865.1	865.0	864.6	864.2
145°	897.3	897.6	898.0	898.3	898.0	897.6	897.3	897.0	896.7	896.5	896.4
147.5°	925.2	925.3	925.6	925.7	925.6	925.3	925.2	925.0	924.9	924.7	924.6
150°	942.9	943.1	943.3	943.4	943.3	943.1	942.9	942.7	942.6	942.6	942.6
152.5°	958.9	958.9	958.7	958.6	958.7	958.9	958.9	959.0	958.9	958.7	958.4
155°	980.6	980.1	979.5	979.1	979.5	980.1	980.6	981.1	981.0	980.3	979.6
157.5°	998.9	997.9	997.0	996.1	997.0	997.9	998.9	999.7	999.7	998.9	997.9
160°	1010.7	1009.6	1008.5	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7	1010.7	1009.6
162.5°	1019.9	1018.7	1017.6	1016.4	1017.6	1018.7	1019.9	1021.1	1021.2	1020.2	1019.1
165°	1033.6	1032.0	1030.4	1028.8	1030.4	1032.0	1033.6	1035.1	1035.2	1033.9	1032.5
167.5°	1043.5	1041.7	1039.9	1038.2	1039.9	1041.7	1043.5	1045.2	1045.3	1043.8	1042.2
170°	1049.2	1047.4	1045.6	1043.9	1045.6	1047.4	1049.2	1050.9	1051.1	1049.6	1048.3
172.5°	1052.7	1050.8	1048.9	1047.0	1048.9	1050.8	1052.7	1054.6	1054.9	1053.4	1052.1
175°	1057.3	1055.2	1053.1	1051.0	1053.1	1055.2	1057.3	1059.4	1059.7	1058.1	1056.5
177.5°	1058.6	1056.9	1055.2	1053.5	1055.2	1056.9	1058.6	1060.3	1060.6	1059.4	1058.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1501.5	1505.1	1513.1	1522.3	1529.9	1536.4	1541.5	1548.6	1555.1	1564.2	1572.9
5°	1410.5	1419.3	1431.9	1447.2	1466.1	1478.8	1494.5	1508.5	1528.8	1549.0	1568.6
7.5°	1330.5	1340.2	1358.8	1379.8	1402.3	1423.1	1441.9	1466.3	1493.2	1522.7	1555.5
10°	1278.9	1289.7	1311.8	1335.8	1362.4	1382.6	1407.9	1437.0	1467.4	1503.4	1543.9
12.5°	1232.3	1242.6	1269.2	1293.8	1321.4	1343.6	1373.0	1402.6	1443.1	1482.2	1528.2
15°	1141.6	1168.9	1199.2	1228.3	1261.2	1288.4	1323.8	1354.2	1392.7	1447.8	1500.2
17.5°	1040.9	1069.9	1107.6	1152.5	1196.7	1230.3	1266.2	1303.9	1349.9	1406.0	1466.6
20°	982.2	1005.7	1047.4	1097.3	1148.6	1195.4	1228.3	1270.0	1317.5	1378.2	1440.8
22.5°	938.3	958.1	990.7	1040.7	1096.0	1150.3	1192.4	1233.6	1286.1	1346.8	1415.0
25°	872.2	893.7	922.2	956.3	1019.5	1077.1	1132.2	1179.6	1235.2	1295.9	1371.8
27.5°	817.3	836.0	862.1	897.6	940.2	1003.6	1070.3	1124.4	1181.5	1246.7	1322.6
30°	784.9	800.1	821.6	857.6	898.1	955.1	1022.7	1086.0	1143.5	1211.2	1290.3
32.5°	751.0	767.2	788.2	816.7	860.2	908.0	975.7	1045.0	1106.1	1175.3	1252.8
35°	705.8	718.5	737.4	766.6	805.8	847.6	907.6	979.1	1043.6	1117.6	1191.6
37.5°	660.2	675.1	690.1	716.0	748.1	793.0	842.2	915.2	986.7	1054.2	1126.5
40°	634.4	643.3	659.7	680.6	714.7	754.6	800.7	872.2	943.6	1010.7	1083.5
42.5°	605.5	615.4	629.3	650.2	680.8	719.6	764.8	826.6	901.2	966.2	1032.4
45°	565.5	571.2	585.0	602.8	628.0	667.3	709.0	764.1	834.2	896.2	954.4
47.5°	525.0	529.9	538.6	554.8	583.1	614.7	653.7	703.1	764.7	826.6	875.8
50°	497.1	501.5	509.8	525.0	550.2	581.2	619.8	664.1	719.1	778.6	819.7
52.5°	469.3	471.7	479.4	496.6	517.8	548.3	582.9	623.6	675.1	724.5	766.0
55°	425.0	430.7	435.8	448.5	468.7	497.7	528.8	567.4	607.2	649.0	684.4
57.5°	378.8	385.1	392.4	403.5	419.6	446.6	474.5	505.7	539.8	574.4	604.1
60°	348.5	354.2	360.5	373.2	387.7	409.2	439.6	466.8	492.7	524.3	554.1
62.5°	318.6	324.3	331.7	341.8	355.8	376.4	401.6	425.3	452.3	479.8	501.9
65°	274.5	278.9	284.6	294.1	307.4	325.7	346.6	365.0	389.0	409.2	429.4
67.5°	226.1	234.6	242.0	249.7	260.9	278.1	293.1	310.7	327.0	342.1	360.5
70°	194.2	203.7	210.6	218.8	229.6	244.2	258.6	270.7	284.0	298.5	315.0
72.5°	167.4	174.8	180.2	189.0	198.8	212.2	225.8	235.8	246.5	256.5	272.5
75°	132.2	135.4	139.2	146.1	155.0	165.1	175.9	184.7	191.0	199.9	211.3
77.5°	95.0	101.1	103.6	108.5	114.9	121.2	128.3	135.7	141.8	145.0	153.7
80°	72.7	75.3	77.8	84.8	88.6	94.9	99.9	106.9	109.4	112.6	120.8
82.5°	56.6	58.1	59.6	61.5	63.8	70.1	75.2	79.5	82.1	83.3	89.4
85°	32.9	33.5	34.1	34.8	35.4	35.4	37.9	41.1	45.6	45.6	47.5
87.5°	14.8	15.1	14.8	14.0	14.8	14.5	14.7	14.3	15.4	16.6	17.7
90°	18.5	17.4	16.0	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4
92.5°	17.8	16.8	15.4	13.9	12.5	11.2	10.4	10.3	10.1	10.1	10.0
95°	18.5	17.4	17.2	17.0	16.9	16.7	19.6	25.6	31.5	37.5	43.5
97.5°	21.0	20.9	40.5	60.1	79.7	99.3	107.3	103.5	99.8	96.1	92.4
100°	31.8	34.8	59.0	83.3	107.6	131.8	142.4	139.2	136.0	132.8	129.7
102.5°	135.4	167.6	170.8	174.0	177.1	180.3	180.7	178.4	176.1	173.8	171.4
105°	248.3	246.8	245.9	244.9	244.1	243.2	242.2	241.2	240.1	239.1	238.1
107.5°	308.4	307.6	306.4	305.2	304.0	302.9	302.0	301.4	301.0	300.4	299.8
110°	349.1	348.7	347.7	346.7	345.5	344.5	343.7	343.2	342.7	342.1	341.7



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.6	388.6	388.1	387.6	387.1	386.7	386.0	385.0	384.0	383.1	382.1
115°	446.4	446.0	446.2	446.4	446.6	446.7	446.6	446.0	445.5	445.0	444.4
117.5°	505.4	505.5	505.1	504.7	504.3	503.9	503.4	502.7	502.0	501.3	500.6
120°	541.3	540.9	541.1	541.3	541.5	541.6	541.4	540.7	540.0	539.2	538.5
122.5°	577.2	576.9	576.7	576.5	576.2	576.0	575.7	575.2	574.8	574.4	573.9
125°	626.9	626.3	626.7	627.0	627.4	627.7	627.6	626.9	626.1	625.4	624.7
127.5°	677.2	677.2	676.4	675.7	674.9	674.0	673.5	673.4	673.2	673.0	672.8
130°	707.2	707.0	706.5	705.9	705.4	704.9	704.5	704.3	704.2	704.0	703.9
132.5°	736.9	736.7	736.0	735.4	734.7	734.0	733.6	733.2	732.9	732.6	732.3
135°	777.7	777.4	776.7	775.9	775.2	774.5	774.3	774.4	774.7	774.8	775.0
137.5°	817.0	816.6	815.8	815.1	814.3	813.5	813.1	813.0	812.9	812.9	812.8
140°	841.1	840.7	840.3	840.0	839.6	839.2	838.8	838.5	838.2	837.8	837.5
142.5°	863.8	863.4	863.2	863.0	862.8	862.5	862.1	861.5	860.9	860.2	859.6
145°	896.2	896.0	896.0	896.0	896.0	896.0	895.7	895.2	894.7	894.1	893.6
147.5°	924.5	924.3	924.5	924.6	924.8	925.0	924.6	923.6	922.7	921.6	920.7
150°	942.6	942.6	942.9	943.0	943.2	943.3	943.1	942.4	941.7	941.0	940.2
152.5°	958.1	957.8	958.1	958.5	958.8	959.1	958.9	958.4	957.8	957.3	956.7
155°	978.9	978.3	978.7	979.3	979.9	980.3	980.5	980.3	980.2	980.0	979.9
157.5°	997.0	996.1	996.7	997.3	997.9	998.5	998.9	998.9	999.0	999.2	999.3
160°	1008.5	1007.5	1007.7	1007.8	1008.1	1008.2	1008.5	1009.1	1009.6	1010.1	1010.7
162.5°	1018.0	1017.0	1017.2	1017.3	1017.5	1017.7	1018.1	1018.7	1019.5	1020.1	1020.8
165°	1031.0	1029.6	1029.6	1029.6	1029.6	1029.6	1030.1	1030.9	1031.8	1032.7	1033.6
167.5°	1040.7	1039.1	1039.3	1039.3	1039.4	1039.6	1040.1	1041.0	1041.9	1042.8	1043.7
170°	1046.9	1045.4	1045.3	1045.1	1044.9	1044.7	1045.2	1046.2	1047.3	1048.4	1049.4
172.5°	1050.7	1049.2	1049.1	1048.9	1048.7	1048.5	1049.0	1050.0	1051.1	1052.2	1053.2
175°	1054.9	1053.4	1053.2	1053.0	1052.8	1052.7	1053.1	1054.2	1055.2	1056.3	1057.3
177.5°	1057.2	1056.1	1055.7	1055.5	1055.2	1054.9	1055.3	1056.3	1057.2	1058.2	1059.2
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1579.5	1584.0	1589.0	1598.7	1606.8	1610.3	1617.4	1622.5	1621.0	1628.0	1640.1
5°	1585.6	1602.7	1622.3	1642.6	1665.3	1684.3	1699.5	1714.7	1726.7	1741.2	1762.8
7.5°	1584.6	1615.0	1648.0	1684.3	1721.6	1753.9	1783.8	1814.1	1841.0	1870.5	1909.1
10°	1580.6	1621.0	1662.2	1709.6	1757.1	1802.0	1842.5	1880.4	1916.4	1955.0	2003.7
12.5°	1576.0	1622.5	1672.3	1729.3	1788.4	1842.5	1890.0	1944.6	1989.8	2039.6	2095.8
15°	1555.9	1618.5	1686.2	1760.2	1831.1	1903.8	1968.9	2036.0	2098.6	2158.1	2228.9
17.5°	1532.9	1605.1	1685.0	1772.3	1857.5	1945.9	2023.2	2107.7	2171.7	2251.5	2317.3
20°	1514.2	1592.0	1677.4	1775.4	1872.2	1970.2	2055.6	2141.6	2213.7	2294.0	2377.5
22.5°	1491.4	1576.8	1669.3	1770.8	1872.2	1979.3	2073.8	2159.3	2248.6	2339.1	2425.1
25°	1454.7	1543.3	1641.3	1752.6	1869.0	1978.4	2079.6	2185.9	2282.0	2380.0	2457.2
27.5°	1409.7	1502.7	1606.0	1720.9	1840.3	1952.3	2071.6	2184.8	2281.5	2375.8	2443.2
30°	1373.7	1471.8	1571.1	1687.5	1811.4	1931.6	2059.4	2172.6	2274.4	2359.2	2397.1
32.5°	1336.8	1429.8	1532.2	1650.0	1777.0	1906.3	2033.1	2148.8	2243.1	2293.9	2294.9
35°	1272.6	1359.9	1466.1	1581.8	1712.1	1852.5	1980.9	2094.8	2152.4	2156.8	2094.8
37.5°	1202.5	1282.5	1382.8	1498.7	1641.4	1781.1	1912.2	1988.1	2007.4	1943.0	1828.4
40°	1152.4	1226.4	1323.2	1442.1	1583.7	1728.0	1847.5	1903.1	1882.9	1778.5	1650.7
42.5°	1099.8	1168.7	1261.9	1379.3	1521.5	1667.2	1769.1	1798.9	1745.3	1624.8	1475.2
45°	1013.9	1077.1	1169.5	1287.8	1424.3	1561.0	1638.2	1622.9	1533.7	1390.8	1223.2
47.5°	924.5	985.6	1068.7	1178.1	1318.0	1435.8	1488.1	1442.3	1315.4	1158.2	1021.8
50°	865.2	927.9	1004.4	1108.7	1236.5	1350.4	1383.9	1314.3	1173.2	1022.1	896.8
52.5°	807.1	860.5	935.6	1036.4	1158.6	1254.7	1272.6	1192.4	1046.8	911.2	800.2
55°	718.5	767.2	830.4	925.3	1030.9	1112.5	1103.0	1000.0	867.8	752.0	664.7
57.5°	632.9	669.6	728.0	816.9	909.7	964.4	929.8	841.9	718.7	623.9	550.2
60°	576.2	610.4	664.7	742.5	824.1	855.1	826.0	730.6	633.1	546.4	484.5
62.5°	522.5	552.7	599.4	671.7	737.6	756.0	724.8	641.4	553.7	479.7	428.3
65°	444.7	472.5	512.3	563.6	609.1	617.9	597.7	512.3	445.9	383.9	348.5
67.5°	373.9	392.1	423.3	467.5	491.7	496.9	457.8	404.2	345.6	307.5	280.8
70°	326.4	339.0	368.1	392.1	411.8	412.4	376.4	333.4	288.4	257.5	237.8
72.5°	280.4	292.5	314.5	330.9	345.9	341.0	308.0	274.1	237.8	214.4	199.9
75°	216.3	227.0	238.4	246.1	246.1	239.7	215.7	190.4	169.5	155.6	151.1
77.5°	157.2	166.1	169.9	168.7	166.4	156.6	141.4	124.8	117.4	110.8	107.5
80°	123.3	127.1	128.4	125.2	121.4	110.0	99.9	93.0	86.0	83.5	82.2
82.5°	91.4	94.7	91.4	92.4	84.0	74.6	69.1	66.7	63.8	62.7	61.5
85°	48.7	48.1	46.8	43.6	37.9	36.7	36.0	35.4	34.1	34.8	33.5
87.5°	17.6	16.4	14.8	14.7	15.0	14.3	15.1	15.4	15.6	15.3	16.6
90°	4.3	6.3	8.2	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5
92.5°	10.1	10.1	10.3	10.4	11.2	12.5	13.9	15.4	16.8	17.8	18.9
95°	37.5	31.5	25.6	19.6	16.7	16.9	17.0	17.2	17.4	18.5	19.5
97.5°	96.1	99.8	103.5	107.3	99.3	79.7	60.1	40.5	20.9	21.0	21.1
100°	132.8	136.0	139.2	142.4	131.8	107.6	83.3	59.0	34.8	31.8	28.8
102.5°	173.8	176.1	178.4	180.7	180.3	177.1	174.0	170.8	167.6	135.4	103.2
105°	239.1	240.1	241.2	242.2	243.2	244.1	244.9	245.9	246.8	248.3	249.9
107.5°	300.4	301.0	301.4	302.0	302.9	304.0	305.2	306.4	307.6	308.4	309.2
110°	342.1	342.7	343.2	343.7	344.5	345.5	346.7	347.7	348.7	349.1	349.4



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	383.1	384.0	385.0	386.0	386.7	387.1	387.6	388.1	388.6	388.6	388.5
115°	445.0	445.5	446.0	446.6	446.7	446.6	446.4	446.2	446.0	446.4	446.7
117.5°	501.3	502.0	502.7	503.4	503.9	504.3	504.7	505.1	505.5	505.4	505.3
120°	539.2	540.0	540.7	541.4	541.6	541.5	541.3	541.1	540.9	541.3	541.6
122.5°	574.4	574.8	575.2	575.7	576.0	576.2	576.5	576.7	576.9	577.2	577.4
125°	625.4	626.1	626.9	627.6	627.7	627.4	627.0	626.7	626.3	626.9	627.4
127.5°	673.0	673.2	673.4	673.5	674.0	674.9	675.7	676.4	677.2	677.2	677.1
130°	704.0	704.2	704.3	704.5	704.9	705.4	705.9	706.5	707.0	707.2	707.3
132.5°	732.6	732.9	733.2	733.6	734.0	734.7	735.4	736.0	736.7	736.9	737.0
135°	774.8	774.7	774.4	774.3	774.5	775.2	775.9	776.7	777.4	777.7	778.1
137.5°	812.9	812.9	813.0	813.1	813.5	814.3	815.1	815.8	816.6	817.0	817.4
140°	837.8	838.2	838.5	838.8	839.2	839.6	840.0	840.3	840.7	841.1	841.7
142.5°	860.2	860.9	861.5	862.1	862.5	862.8	863.0	863.2	863.4	863.8	864.2
145°	894.1	894.7	895.2	895.7	896.0	896.0	896.0	896.0	896.0	896.2	896.4
147.5°	921.6	922.7	923.6	924.6	925.0	924.8	924.6	924.5	924.3	924.5	924.6
150°	941.0	941.7	942.4	943.1	943.3	943.2	943.0	942.9	942.6	942.6	942.6
152.5°	957.3	957.8	958.4	958.9	959.1	958.8	958.5	958.1	957.8	958.1	958.4
155°	980.0	980.2	980.3	980.5	980.3	979.9	979.3	978.7	978.3	978.9	979.6
157.5°	999.2	999.0	998.9	998.9	998.5	997.9	997.3	996.7	996.1	997.0	997.9
160°	1010.1	1009.6	1009.1	1008.5	1008.2	1008.1	1007.8	1007.7	1007.5	1008.5	1009.6
162.5°	1020.1	1019.5	1018.7	1018.1	1017.7	1017.5	1017.3	1017.2	1017.0	1018.0	1019.1
165°	1032.7	1031.8	1030.9	1030.1	1029.6	1029.6	1029.6	1029.6	1029.6	1031.0	1032.5
167.5°	1042.8	1041.9	1041.0	1040.1	1039.6	1039.4	1039.3	1039.3	1039.1	1040.7	1042.2
170°	1048.4	1047.3	1046.2	1045.2	1044.7	1044.9	1045.1	1045.3	1045.4	1046.9	1048.3
172.5°	1052.2	1051.1	1050.0	1049.0	1048.5	1048.7	1048.9	1049.1	1049.2	1050.7	1052.1
175°	1056.3	1055.2	1054.2	1053.1	1052.7	1052.8	1053.0	1053.2	1053.4	1054.9	1056.5
177.5°	1058.2	1057.2	1056.3	1055.3	1054.9	1055.2	1055.5	1055.7	1056.1	1057.2	1058.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1646.7	1648.8	1650.3	1655.3	1655.8	1660.4	1655.8
5°	1783.0	1791.8	1805.8	1819.6	1820.9	1829.8	1813.9
7.5°	1935.8	1956.3	1969.0	1991.5	2000.4	2006.0	1996.9
10°	2041.1	2060.0	2093.5	2110.0	2126.5	2128.9	2121.4
12.5°	2142.8	2172.9	2199.3	2230.4	2229.7	2251.9	2243.8
15°	2278.2	2309.2	2345.9	2380.7	2393.3	2393.3	2403.5
17.5°	2374.9	2431.7	2469.6	2497.0	2526.7	2532.0	2528.4
20°	2440.2	2501.5	2542.0	2577.4	2597.6	2603.3	2603.3
22.5°	2488.7	2540.9	2580.5	2612.3	2629.0	2635.7	2633.7
25°	2522.4	2567.2	2591.3	2600.8	2605.2	2604.0	2591.9
27.5°	2476.3	2474.3	2459.1	2430.0	2408.2	2394.8	2379.6
30°	2388.3	2355.4	2317.5	2275.7	2221.9	2180.8	2168.1
32.5°	2257.2	2183.3	2119.1	2049.5	1991.7	1950.6	1933.4
35°	2003.7	1886.7	1791.2	1707.7	1647.0	1609.1	1596.4
37.5°	1702.9	1589.7	1471.4	1390.4	1340.1	1301.8	1287.5
40°	1511.6	1388.3	1285.2	1209.3	1157.5	1120.1	1119.5
42.5°	1337.0	1219.3	1122.3	1067.6	1011.7	987.1	986.9
45°	1094.8	1000.6	918.4	875.4	841.9	821.6	815.9
47.5°	906.5	828.5	773.8	739.5	712.2	699.3	690.9
50°	800.7	732.5	688.8	659.0	643.9	627.4	626.1
52.5°	712.6	657.5	623.5	599.4	580.1	570.2	570.5
55°	599.0	555.3	531.3	512.9	497.7	490.2	487.0
57.5°	504.6	471.8	454.4	437.5	431.1	425.2	423.5
60°	445.9	423.7	407.3	394.0	384.5	382.6	382.0
62.5°	397.4	374.1	362.8	352.5	345.6	342.7	341.5
65°	327.6	310.5	300.4	292.2	289.7	285.3	284.6
67.5°	264.1	253.9	247.2	241.5	238.1	237.8	237.8
70°	225.1	219.4	213.8	210.6	208.7	207.5	207.5
72.5°	191.8	187.6	182.9	181.3	180.9	179.6	179.1
75°	146.1	141.6	142.3	139.2	136.7	133.5	131.6
77.5°	103.6	100.4	99.8	99.4	97.3	96.9	97.9
80°	80.3	77.2	76.5	77.2	76.5	74.6	74.6
82.5°	61.1	58.5	57.8	57.4	56.8	57.4	56.4
85°	32.9	31.6	31.6	31.6	32.9	32.2	31.6
87.5°	15.8	15.4	16.1	15.7	15.8	15.3	15.8
90°	20.6	21.6	22.3	22.7	23.1	23.4	23.7
92.5°	20.0	21.0	21.5	21.6	21.7	21.8	21.9
95°	20.6	21.6	22.3	22.4	22.6	22.7	22.9
97.5°	21.2	21.3	21.5	21.6	21.8	21.9	22.2
100°	25.8	22.8	21.5	21.6	21.8	21.9	22.2
102.5°	71.0	38.7	22.7	22.7	22.7	22.7	22.8
105°	251.4	253.0	250.7	244.4	238.1	231.7	225.4
107.5°	310.0	310.7	311.4	312.1	312.8	313.5	314.1
110°	349.8	350.1	350.6	351.1	351.6	352.2	352.7



TEST NUMBER: P333003-927

CATALOG NUMBER: SA4XXRDIP-C1195D1035U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	388.4	388.3	388.6	389.3	390.0	390.6	391.3
115°	447.1	447.4	447.6	447.6	447.6	447.6	447.6
117.5°	505.3	505.2	505.2	505.1	505.0	504.9	504.9
120°	541.9	542.3	542.3	541.9	541.6	541.3	540.9
122.5°	577.6	577.8	577.7	577.4	577.0	576.7	576.3
125°	627.9	628.4	628.8	629.0	629.2	629.3	629.5
127.5°	676.9	676.8	676.7	676.6	676.4	676.3	676.1
130°	707.5	707.7	707.8	707.8	707.8	707.8	707.8
132.5°	737.3	737.4	737.4	737.3	737.1	737.0	736.9
135°	778.4	778.8	779.1	779.5	779.8	780.1	780.5
137.5°	817.8	818.2	818.2	818.2	818.1	817.9	817.8
140°	842.2	842.7	843.1	843.3	843.4	843.6	843.8
142.5°	864.6	865.0	865.1	865.2	865.2	865.3	865.3
145°	896.5	896.7	897.0	897.3	897.6	898.0	898.3
147.5°	924.7	924.9	925.0	925.2	925.3	925.6	925.7
150°	942.6	942.6	942.7	942.9	943.1	943.3	943.4
152.5°	958.7	958.9	959.0	958.9	958.9	958.7	958.6
155°	980.3	981.0	981.1	980.6	980.1	979.5	979.1
157.5°	998.9	999.7	999.7	998.9	997.9	997.0	996.1
160°	1010.7	1011.7	1011.7	1010.7	1009.6	1008.5	1007.5
162.5°	1020.2	1021.2	1021.1	1019.9	1018.7	1017.6	1016.4
165°	1033.9	1035.2	1035.1	1033.6	1032.0	1030.4	1028.8
167.5°	1043.8	1045.3	1045.2	1043.5	1041.7	1039.9	1038.2
170°	1049.6	1051.1	1050.9	1049.2	1047.4	1045.6	1043.9
172.5°	1053.4	1054.9	1054.6	1052.7	1050.8	1048.9	1047.0
175°	1058.1	1059.7	1059.4	1057.3	1055.2	1053.1	1051.0
177.5°	1059.4	1060.6	1060.3	1058.6	1056.9	1055.2	1053.5
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3

(END OF REPORT)