

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: P332999-927

Luminaire Tested: **SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332999-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6262.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

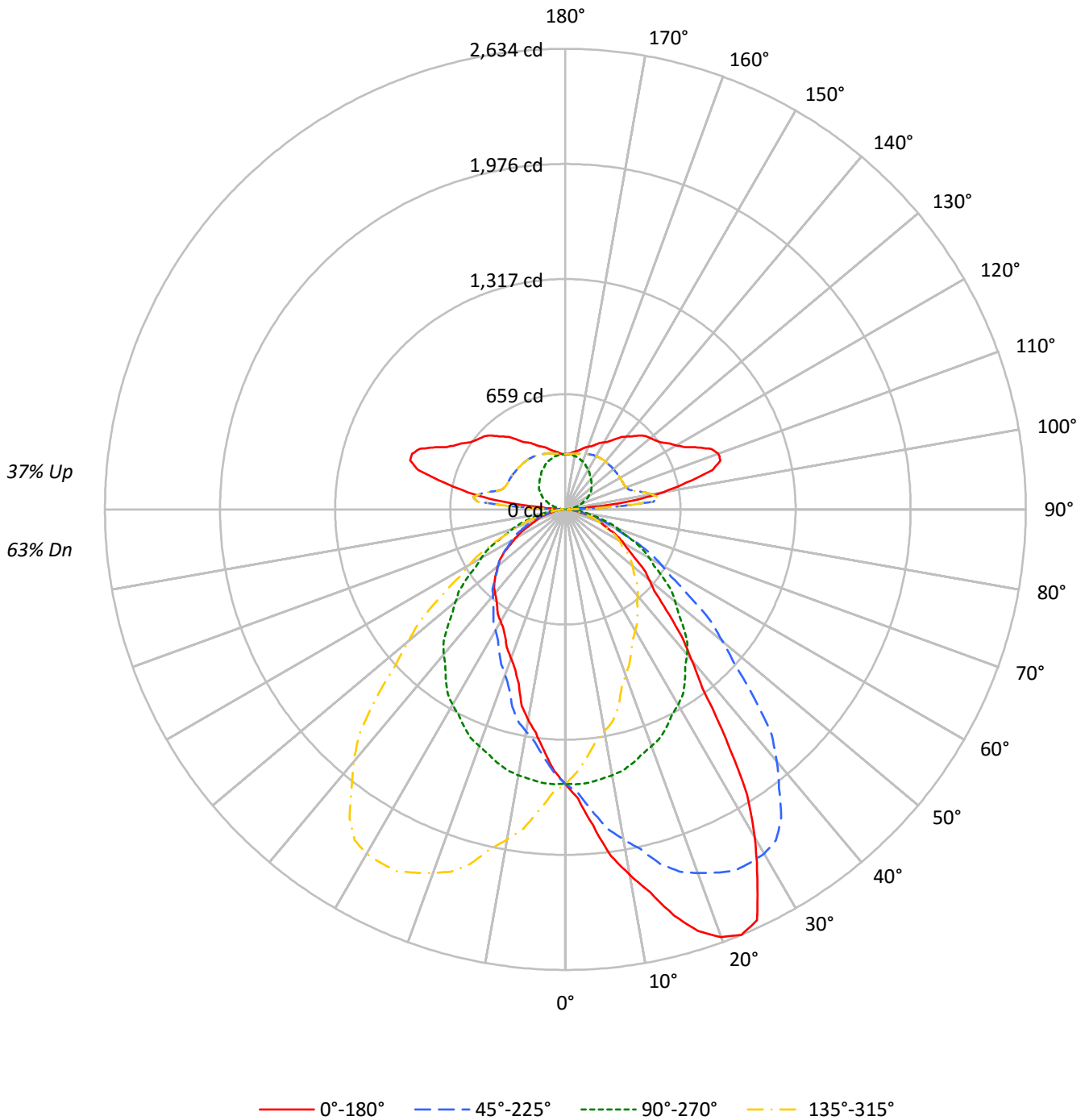
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68	63				
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	61	60	59	55				
2	93	86	80	75	87	81	75	71	71	67	64	63	60	57	55	53	51	47				
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40				
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	41	45	41	37	40	36	33	31				
6	66	54	46	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27				
7	62	49	41	36	58	47	40	34	42	36	32	38	33	29	33	30	27	24				
8	57	45	37	32	54	43	36	31	38	33	28	35	30	26	31	27	24	22				
9	53	41	34	29	50	39	32	28	35	30	26	32	27	24	28	25	22	20				
10	50	38	31	26	47	36	29	25	33	27	23	29	25	21	26	23	20	18				

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: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.4
10°-20°	458.8	7.3
20°-30°	717.6	11.5
30°-40°	797.8	12.7
40°-50°	707.8	11.3
50°-60°	551.5	8.8
60°-70°	361.1	5.8
70°-80°	177.6	2.8
80°-90°	45.6	0.7
90°-100°	227.7	3.6
100°-110°	474.0	7.6
110°-120°	424.5	6.8
120°-130°	357.1	5.7
130°-140°	297.7	4.8
140°-150°	227.5	3.6
150°-160°	159.9	2.6
160°-170°	94.0	1.5
170°-180°	30.6	0.5
0°-30°	1328.5	21.2
0°-40°	2126.3	34.0
0°-60°	3385.7	54.1
0°-90°	3969.9	63.4
90°-120°	1126.2	18.0
90°-150°	2008.5	32.1
90°-180°	2293.0	36.6
0°-180°	6262.9	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°	13	1	13	1	13	12
95°	151	20	151	20	151	235
105°	872	72	872	72	872	862
115°	837	128	837	128	837	831
125°	668	178	668	178	668	607
135°	597	211	597	211	597	461
145°	488	243	488	243	488	309
155°	408	277	408	277	408	190
165°	356	302	356	302	356	102
175°	321	315	321	315	321	31
180°	315	315	315	315	315	



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	13.7	13.2	13.9	13.7	14.1	13.6	14.0	14.9	13.7	14.3	14.1
90°	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2	10.5	11.2	9.9
92.5°	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7	163.7	196.5	172.0
95°	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0	519.1	504.9	381.0
97.5°	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1	652.1	531.7	356.6
100°	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0	656.6	498.0	323.4
102.5°	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5	619.4	455.9	301.0
105°	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8	551.9	406.3	281.9
107.5°	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1	497.4	378.6	278.4
110°	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4	470.2	369.2	279.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2	454.8	364.7	282.3
115°	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8	440.4	362.3	288.0
117.5°	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5	434.0	361.7	294.1
120°	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5	430.5	361.7	298.6
122.5°	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6	426.5	361.2	303.0
125°	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4	419.9	360.5	309.7
127.5°	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1	411.1	359.2	315.1
130°	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2	405.8	358.6	319.0
132.5°	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7	400.8	358.1	322.5
135°	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4	393.3	357.4	327.6
137.5°	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4	386.9	357.3	330.7
140°	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9	383.4	356.8	333.3
142.5°	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0	380.5	356.8	335.3
145°	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2	375.3	355.5	336.4
147.5°	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1	370.8	353.3	337.0
150°	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1	367.3	351.8	337.0
152.5°	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8	363.4	349.4	336.0
155°	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5	357.4	345.6	334.5
157.5°	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7	351.3	341.8	332.9
160°	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3	346.9	338.8	331.4
162.5°	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9	342.9	335.9	329.9
165°	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3	336.4	331.4	327.1
167.5°	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0	330.4	326.9	324.1
170°	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5	326.5	323.9	322.1
172.5°	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6	323.0	321.0	320.1
175°	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3	319.0	317.7	317.7
177.5°	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8	316.2	315.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	13.9	13.4	13.6	13.6	14.0	15.9	17.0	17.3	16.1	14.9	13.5
90°	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6	1.8	3.7	4.4
92.5°	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1	10.3	16.1	23.7
95°	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4	22.3	28.5	36.5
97.5°	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7	36.7	42.0	49.4
100°	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1	47.1	51.4	58.9
102.5°	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0	58.0	61.8	68.8
105°	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5	74.3	77.4	84.8
107.5°	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6	90.8	93.9	101.8
110°	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0	102.2	105.3	112.7



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9	113.1	116.7	123.7
115°	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6	129.4	133.8	140.0
117.5°	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9	145.7	149.6	156.4
120°	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9	156.1	160.4	167.2
122.5°	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8	166.0	170.3	176.7
125°	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8	180.2	183.9	190.8
127.5°	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3	191.3	195.7	203.5
130°	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7	198.2	203.2	212.5
132.5°	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2	204.1	210.6	219.4
135°	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2	213.7	219.9	230.4
137.5°	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3	222.6	229.4	239.5
140°	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7	228.5	235.4	245.9
142.5°	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6	235.5	241.9	251.8
145°	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4	245.3	251.5	260.2
147.5°	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4	255.1	260.5	269.4
150°	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4	262.1	267.0	274.4
152.5°	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8	268.0	272.9	279.9
155°	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9	277.5	281.2	287.4
157.5°	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7	285.7	289.1	294.0
160°	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1	291.1	293.6	297.9
162.5°	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1	295.6	297.5	301.4
165°	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7	301.7	302.9	306.0
167.5°	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2	306.7	307.2	309.6
170°	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7	309.1	309.7	311.6
172.5°	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2	311.6	311.7	313.1
175°	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7	314.0	314.0	314.7
177.5°	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8	315.3	314.8	315.3
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	13.6	13.2	13.9	12.8	13.6	13.9	13.2	13.4	14.0	13.1	13.1
90°	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2	11.8	12.4	12.4
92.5°	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7	91.6	72.9	60.4
95°	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0	363.0	280.0	219.9
97.5°	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1	642.5	581.9	517.2
100°	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0	759.4	729.0	683.3
102.5°	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5	805.0	813.8	794.7
105°	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8	800.9	862.2	887.6
107.5°	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1	737.1	823.5	878.7
110°	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4	687.5	777.4	845.5



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2	644.0	728.8	796.9
115°	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8	594.1	666.5	726.0
117.5°	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5	565.5	622.5	673.0
120°	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5	553.2	602.7	646.7
122.5°	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6	545.2	590.3	628.8
125°	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4	532.7	575.4	609.5
127.5°	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1	517.9	560.5	592.9
130°	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2	506.0	548.2	581.0
132.5°	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7	492.7	533.9	566.6
135°	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4	472.6	510.4	541.4
137.5°	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4	453.4	485.3	513.3
140°	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9	441.0	468.9	495.0
142.5°	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0	430.6	454.6	477.1
145°	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2	416.3	434.8	452.2
147.5°	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1	403.9	418.7	432.4
150°	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1	396.4	408.8	419.9
152.5°	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8	389.0	400.4	409.6
155°	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5	378.5	387.8	395.2
157.5°	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7	368.0	375.9	381.8
160°	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3	361.2	368.0	372.9
162.5°	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9	354.7	360.0	364.5
165°	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3	345.0	349.4	352.4
167.5°	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0	336.8	340.3	342.1
170°	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5	331.4	333.9	335.7
172.5°	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6	326.9	328.4	329.8
175°	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3	320.8	322.1	322.1
177.5°	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8	317.3	317.3	317.7
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	14.3	13.9	13.2	13.7	13.2	13.9	14.3	13.1	13.1	14.0	13.4
90°	13.0	13.6	13.0	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2
92.5°	53.2	49.8	47.7	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7
95°	189.6	170.3	159.2	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0
97.5°	472.8	435.5	416.8	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1
100°	629.3	591.5	573.0	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0
102.5°	761.7	734.3	714.7	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5
105°	888.9	883.9	875.3	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8
107.5°	909.3	923.4	929.6	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1
110°	889.5	915.5	926.7	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	846.8	878.4	894.0	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2
115°	774.9	812.1	831.9	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8
117.5°	714.7	745.9	766.0	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5
120°	682.0	709.2	725.3	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5
122.5°	658.7	682.0	695.6	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6
125°	634.3	652.3	664.0	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4
127.5°	617.8	633.8	643.7	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1
130°	606.4	621.9	631.8	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2
132.5°	591.5	609.0	618.5	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7
135°	566.2	583.5	593.4	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4
137.5°	536.4	553.5	561.7	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4
140°	516.6	530.2	538.9	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9
142.5°	496.3	508.9	516.6	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0
145°	467.7	478.2	484.4	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2
147.5°	443.8	452.8	457.5	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1
150°	429.9	437.9	441.6	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1
152.5°	418.0	424.5	426.7	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8
155°	401.4	406.3	408.2	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5
157.5°	386.5	390.2	391.3	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7
160°	376.6	380.3	381.0	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3
162.5°	367.2	370.9	371.5	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9
165°	354.9	357.4	356.8	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3
167.5°	343.4	345.0	344.9	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0
170°	337.0	337.5	337.0	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5
172.5°	330.5	331.1	330.5	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6
175°	322.1	323.4	322.1	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3
177.5°	317.3	317.7	316.8	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	13.2	13.9	13.6	12.8	13.9	13.2	13.6	13.5	14.9	16.1	17.3
90°	10.5	11.2	9.9	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6
92.5°	163.7	196.5	172.0	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1
95°	519.1	504.9	381.0	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4
97.5°	652.1	531.7	356.6	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7
100°	656.6	498.0	323.4	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1
102.5°	619.4	455.9	301.0	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0
105°	551.9	406.3	281.9	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5
107.5°	497.4	378.6	278.4	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6
110°	470.2	369.2	279.3	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.8	364.7	282.3	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9
115°	440.4	362.3	288.0	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6
117.5°	434.0	361.7	294.1	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9
120°	430.5	361.7	298.6	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9
122.5°	426.5	361.2	303.0	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8
125°	419.9	360.5	309.7	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8
127.5°	411.1	359.2	315.1	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3
130°	405.8	358.6	319.0	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7
132.5°	400.8	358.1	322.5	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2
135°	393.3	357.4	327.6	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2
137.5°	386.9	357.3	330.7	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3
140°	383.4	356.8	333.3	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7
142.5°	380.5	356.8	335.3	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6
145°	375.3	355.5	336.4	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4
147.5°	370.8	353.3	337.0	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4
150°	367.3	351.8	337.0	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4
152.5°	363.4	349.4	336.0	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8
155°	357.4	345.6	334.5	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9
157.5°	351.3	341.8	332.9	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7
160°	346.9	338.8	331.4	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1
162.5°	342.9	335.9	329.9	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1
165°	336.4	331.4	327.1	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7
167.5°	330.4	326.9	324.1	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2
170°	326.5	323.9	322.1	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7
172.5°	323.0	321.0	320.1	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2
175°	319.0	317.7	317.7	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7
177.5°	316.2	315.8	315.8	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	17.0	15.9	14.0	13.6	13.6	13.4	13.9	14.1	14.3	13.7	14.9
90°	1.8	3.7	4.4	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2
92.5°	10.3	16.1	23.7	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7
95°	22.3	28.5	36.5	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0
97.5°	36.7	42.0	49.4	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1
100°	47.1	51.4	58.9	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0
102.5°	58.0	61.8	68.8	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5
105°	74.3	77.4	84.8	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8
107.5°	90.8	93.9	101.8	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1
110°	102.2	105.3	112.7	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.7	123.7	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2
115°	129.4	133.8	140.0	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8
117.5°	145.7	149.6	156.4	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5
120°	156.1	160.4	167.2	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5
122.5°	166.0	170.3	176.7	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6
125°	180.2	183.9	190.8	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4
127.5°	191.3	195.7	203.5	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1
130°	198.2	203.2	212.5	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2
132.5°	204.1	210.6	219.4	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7
135°	213.7	219.9	230.4	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4
137.5°	222.6	229.4	239.5	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4
140°	228.5	235.4	245.9	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9
142.5°	235.5	241.9	251.8	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0
145°	245.3	251.5	260.2	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2
147.5°	255.1	260.5	269.4	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1
150°	262.1	267.0	274.4	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1
152.5°	268.0	272.9	279.9	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8
155°	277.5	281.2	287.4	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5
157.5°	285.7	289.1	294.0	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7
160°	291.1	293.6	297.9	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3
162.5°	295.6	297.5	301.4	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9
165°	301.7	302.9	306.0	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3
167.5°	306.7	307.2	309.6	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0
170°	309.1	309.7	311.6	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5
172.5°	311.6	311.7	313.1	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6
175°	314.0	314.0	314.7	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3
177.5°	315.3	314.8	315.3	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

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°	14.0	13.6	14.1	13.7	13.9	13.2	13.7
90°	11.8	12.4	12.4	13.0	13.6	13.0	13.0
92.5°	91.6	72.9	60.4	53.2	49.8	47.7	47.7
95°	363.0	280.0	219.9	189.6	170.3	159.2	151.1
97.5°	642.5	581.9	517.2	472.8	435.5	416.8	404.0
100°	759.4	729.0	683.3	629.3	591.5	573.0	568.0
102.5°	805.0	813.8	794.7	761.7	734.3	714.7	710.7
105°	800.9	862.2	887.6	888.9	883.9	875.3	871.6
107.5°	737.1	823.5	878.7	909.3	923.4	929.6	931.2
110°	687.5	777.4	845.5	889.5	915.5	926.7	932.2



TEST NUMBER: P332999-927

CATALOG NUMBER: SA4XXRDIP-C1195D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	644.0	728.8	796.9	846.8	878.4	894.0	903.0
115°	594.1	666.5	726.0	774.9	812.1	831.9	836.9
117.5°	565.5	622.5	673.0	714.7	745.9	766.0	769.8
120°	553.2	602.7	646.7	682.0	709.2	725.3	732.1
122.5°	545.2	590.3	628.8	658.7	682.0	695.6	702.4
125°	532.7	575.4	609.5	634.3	652.3	664.0	667.7
127.5°	517.9	560.5	592.9	617.8	633.8	643.7	647.5
130°	506.0	548.2	581.0	606.4	621.9	631.8	635.6
132.5°	492.7	533.9	566.6	591.5	609.0	618.5	622.2
135°	472.6	510.4	541.4	566.2	583.5	593.4	597.1
137.5°	453.4	485.3	513.3	536.4	553.5	561.7	566.2
140°	441.0	468.9	495.0	516.6	530.2	538.9	543.8
142.5°	430.6	454.6	477.1	496.3	508.9	516.6	520.1
145°	416.3	434.8	452.2	467.7	478.2	484.4	487.5
147.5°	403.9	418.7	432.4	443.8	452.8	457.5	458.6
150°	396.4	408.8	419.9	429.9	437.9	441.6	442.3
152.5°	389.0	400.4	409.6	418.0	424.5	426.7	427.4
155°	378.5	387.8	395.2	401.4	406.3	408.2	408.2
157.5°	368.0	375.9	381.8	386.5	390.2	391.3	391.3
160°	361.2	368.0	372.9	376.6	380.3	381.0	381.0
162.5°	354.7	360.0	364.5	367.2	370.9	371.5	371.1
165°	345.0	349.4	352.4	354.9	357.4	356.8	356.2
167.5°	336.8	340.3	342.1	343.4	345.0	344.9	344.4
170°	331.4	333.9	335.7	337.0	337.5	337.0	337.0
172.5°	326.9	328.4	329.8	330.5	331.1	330.5	329.5
175°	320.8	322.1	322.1	322.1	323.4	322.1	320.8
177.5°	317.3	317.3	317.7	317.3	317.7	316.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3

(END OF REPORT)