

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: P332991-927

Luminaire Tested: **SA4XXRDIP-C1195D590U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332991-927  
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-C1195D590U927-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5838.8 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

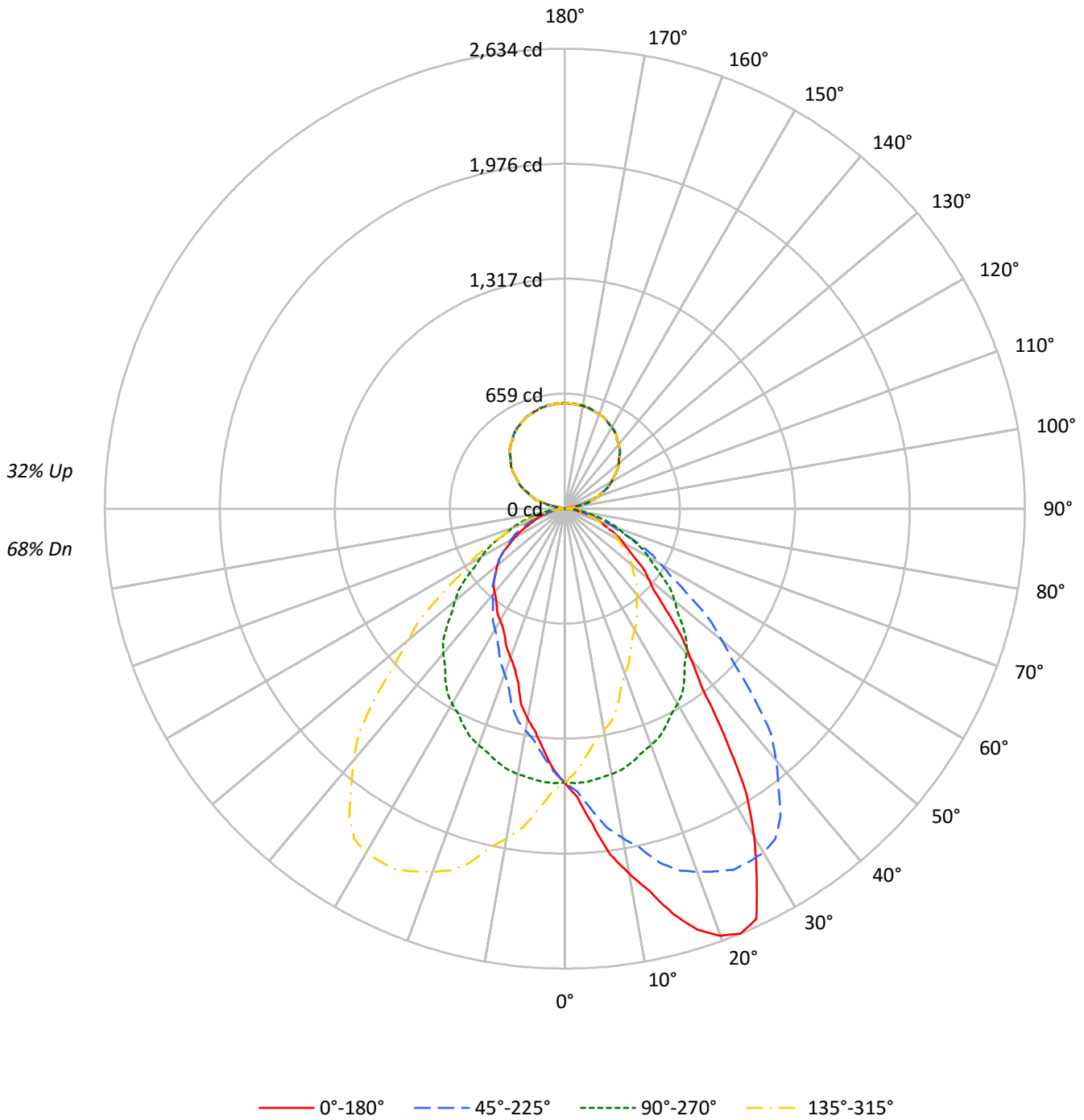
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68				
1	102	98	95	91	97	93	90	87	83	80	78	74	72	70	65	64	63	59				
2	94	87	81	75	88	82	77	72	73	69	66	65	62	60	58	56	54	50				
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43				
4	79	68	60	54	74	65	58	52	58	53	48	52	48	44	47	43	40	37				
5	73	61	53	47	69	58	51	45	53	47	42	47	43	39	43	39	36	33				
6	67	55	47	41	63	53	45	40	48	42	37	43	38	34	39	35	32	29				
7	62	50	42	37	59	48	40	35	43	37	33	39	34	31	36	31	28	26				
8	58	46	38	33	55	44	36	32	40	34	29	36	31	27	33	29	25	23				
9	54	42	34	29	51	40	33	28	37	31	27	33	28	25	30	26	23	21				
10	51	39	31	26	48	37	30	26	34	28	24	31	26	23	28	24	21	19				

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	2.6
10°-20°	458.8	7.9
20°-30°	717.6	12.3
30°-40°	797.8	13.7
40°-50°	707.8	12.1
50°-60°	551.5	9.4
60°-70°	361.1	6.2
70°-80°	177.6	3.0
80°-90°	45.6	0.8
90°-100°	20.7	0.4
100°-110°	131.7	2.3
110°-120°	252.0	4.3
120°-130°	319.9	5.5
130°-140°	342.3	5.9
140°-150°	320.1	5.5
150°-160°	258.1	4.4
160°-170°	166.5	2.9
170°-180°	57.4	1.0
0°-30°	1328.5	22.8
0°-40°	2126.3	36.4
0°-60°	3385.7	58.0
0°-90°	3969.9	68.0
90°-120°	404.5	6.9
90°-150°	1386.8	23.8
90°-180°	1869.0	32.0
0°-180°	5838.8	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°	14	1	14	1	14	7
95°	13	25	13	25	13	10
105°	129	136	129	136	129	112
115°	256	254	256	254	256	253
125°	360	357	360	357	360	320
135°	446	443	446	443	446	343
145°	513	511	513	511	513	321
155°	559	560	559	560	559	258
165°	588	591	588	591	588	166
175°	601	604	601	604	601	57
180°	604	604	604	604	604	



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**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°	13.9	13.3	13.8	13.7	14.2	13.6	14.0	14.9	13.8	14.1	13.9
90°	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2	10.5	9.9	9.1
92.5°	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8	10.2	9.6	8.8
95°	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2	10.5	9.9	9.8
97.5°	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0	12.0	12.0	23.1
100°	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5	18.1	19.9	33.7
102.5°	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9	77.4	95.8	97.6
105°	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8	141.9	141.0	140.5
107.5°	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7	176.3	175.8	175.1
110°	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7	199.5	199.3	198.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0	222.0	222.0	221.8
115°	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2	255.1	254.8	254.9
117.5°	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8	288.8	288.8	288.6
120°	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5	309.3	309.1	309.2
122.5°	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9	329.8	329.7	329.5
125°	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5	358.2	357.9	358.1
127.5°	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9	386.9	387.0	386.5
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2	404.1	404.0	403.7
132.5°	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2	421.0	421.0	420.6
135°	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6	444.4	444.2	443.8
137.5°	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1	466.8	466.6	466.2
140°	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9	480.6	480.4	480.1
142.5°	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8	493.6	493.4	493.2
145°	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1	512.1	512.0	512.0
147.5°	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3	528.2	528.1	528.2
150°	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6	538.6	538.6	538.8
152.5°	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6	547.5	547.3	547.5
155°	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8	559.4	559.0	559.3
157.5°	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2	569.7	569.2	569.5
160°	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9	576.3	575.7	575.8
162.5°	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3	581.7	581.1	581.2
165°	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9	589.1	588.4	588.4
167.5°	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6	594.7	593.7	593.8
170°	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0	598.2	597.4	597.3
172.5°	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2	600.4	599.5	599.4
175°	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7	602.8	601.9	601.8
177.5°	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8	604.1	603.4	603.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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**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°	13.8	13.2	14.0	13.8	14.1	15.9	17.2	17.5	16.2	14.9	13.5
90°	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3	2.5	3.6	4.7
92.5°	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7	5.8	5.8	5.9
95°	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9	21.5	18.1	14.6
97.5°	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8	54.9	57.0	59.2
100°	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1	75.9	77.7	79.5
102.5°	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0	99.3	100.6	102.0
105°	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0	136.7	137.2	137.8
107.5°	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3	171.7	172.0	172.2
110°	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2	195.5	195.8	196.1





TEST NUMBER: P332991-927

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3	218.9	219.4	220.0
115°	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0	254.3	254.5	254.8
117.5°	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1	286.5	286.8	287.2
120°	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8	308.2	308.6	309.0
122.5°	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0	328.2	328.4	328.7
125°	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0	357.4	357.8	358.2
127.5°	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4	384.5	384.7	384.8
130°	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2	402.3	402.3	402.5
132.5°	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4	418.6	418.8	419.0
135°	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8	442.8	442.7	442.5
137.5°	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5	464.5	464.5	464.5
140°	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6	478.7	479.0	479.1
142.5°	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2	491.5	491.9	492.3
145°	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6	511.0	511.2	511.5
147.5°	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1	526.6	527.2	527.8
150°	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3	537.7	538.1	538.5
152.5°	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7	547.0	547.3	547.6
155°	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9	560.0	560.1	560.2
157.5°	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0	570.9	570.8	570.8
160°	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5	577.2	576.9	576.6
162.5°	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3	582.9	582.5	582.2
165°	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6	590.1	589.6	589.1
167.5°	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4	595.9	595.3	594.8
170°	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7	599.0	598.4	597.9
172.5°	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8	601.2	600.6	600.0
175°	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2	603.6	602.9	602.4
177.5°	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2	604.7	604.1	603.6
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332991-927

CATALOG NUMBER: SA4XXRDIP-C1195D590U927-4F0-1E-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°	13.8	13.5	13.6	12.8	13.5	13.6	13.2	13.4	14.0	13.1	13.2
90°	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2	11.7	12.4	12.8
92.5°	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8	11.4	12.0	12.3
95°	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2	11.7	12.4	12.7
97.5°	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0	12.1	12.2	12.3
100°	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5	14.7	13.1	12.3
102.5°	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9	40.6	22.1	12.9
105°	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8	143.7	144.6	143.2
107.5°	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7	177.1	177.5	177.9
110°	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7	199.9	200.1	200.3



TEST NUMBER: P332991-927

CATALOG NUMBER: SA4XXRDIP-C1195D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0	222.0	221.9	222.0
115°	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2	255.5	255.6	255.8
117.5°	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8	288.8	288.7	288.7
120°	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5	309.7	309.9	309.9
122.5°	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9	330.0	330.2	330.1
125°	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5	358.8	359.1	359.3
127.5°	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9	386.8	386.7	386.7
130°	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2	404.3	404.4	404.4
132.5°	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2	421.3	421.4	421.4
135°	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6	444.8	445.0	445.2
137.5°	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1	467.3	467.5	467.5
140°	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9	481.3	481.6	481.7
142.5°	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8	494.0	494.2	494.4
145°	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1	512.3	512.4	512.5
147.5°	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3	528.4	528.5	528.5
150°	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6	538.6	538.6	538.7
152.5°	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6	547.8	548.0	548.0
155°	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8	560.2	560.5	560.6
157.5°	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2	570.8	571.2	571.2
160°	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9	577.5	578.1	578.1
162.5°	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3	582.9	583.5	583.5
165°	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9	590.7	591.6	591.5
167.5°	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6	596.4	597.3	597.2
170°	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0	599.8	600.6	600.5
172.5°	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2	602.0	602.8	602.6
175°	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7	604.6	605.5	605.4
177.5°	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8	605.4	606.0	605.9
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332991-927

CATALOG NUMBER: SA4XXRDIP-C1195D590U927-4F0-1E-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°	14.3	13.8	13.3	13.9	13.3	13.8	14.3	13.2	13.1	14.0	13.4
90°	13.0	13.2	13.4	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2
92.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8
95°	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2
97.5°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0
100°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5
102.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9
105°	139.7	136.0	132.4	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8
107.5°	178.3	178.7	179.1	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7
110°	200.7	200.9	201.2	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7



TEST NUMBER: P332991-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	222.4	222.8	223.2	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0
115°	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2
117.5°	288.6	288.6	288.5	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8
120°	309.7	309.5	309.3	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5
122.5°	329.9	329.7	329.5	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9
125°	359.4	359.5	359.6	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5
127.5°	386.6	386.5	386.4	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2
132.5°	421.3	421.2	421.1	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2
135°	445.4	445.6	445.8	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6
137.5°	467.5	467.5	467.4	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1
140°	481.9	482.0	482.0	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9
142.5°	494.4	494.4	494.4	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8
145°	512.7	512.9	513.2	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1
147.5°	528.7	528.8	528.9	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3
150°	538.8	538.9	539.0	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6
152.5°	548.0	547.9	547.8	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6
155°	560.3	560.0	559.8	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8
157.5°	570.8	570.2	569.7	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2
160°	577.5	576.9	576.3	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9
162.5°	582.8	582.1	581.5	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3
165°	590.6	589.7	588.8	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9
167.5°	596.3	595.2	594.2	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6
170°	599.5	598.5	597.5	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0
172.5°	601.6	600.5	599.4	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2
175°	604.2	602.9	601.7	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7
177.5°	604.9	604.0	602.9	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332991-927  
 CATALOG NUMBER: SA4XXRDIP-C1195D590U927-4F0-1E-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°	13.2	13.6	13.5	12.8	13.6	13.5	13.8	13.5	14.9	16.2	17.5
90°	10.5	9.9	9.1	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3
92.5°	10.2	9.6	8.8	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7
95°	10.5	9.9	9.8	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9
97.5°	12.0	12.0	23.1	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8
100°	18.1	19.9	33.7	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1
102.5°	77.4	95.8	97.6	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0
105°	141.9	141.0	140.5	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0
107.5°	176.3	175.8	175.1	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3
110°	199.5	199.3	198.7	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2



TEST NUMBER: P332991-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.0	222.0	221.8	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3
115°	255.1	254.8	254.9	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0
117.5°	288.8	288.8	288.6	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1
120°	309.3	309.1	309.2	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8
122.5°	329.8	329.7	329.5	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0
125°	358.2	357.9	358.1	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0
127.5°	386.9	387.0	386.5	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4
130°	404.1	404.0	403.7	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2
132.5°	421.0	421.0	420.6	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4
135°	444.4	444.2	443.8	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8
137.5°	466.8	466.6	466.2	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5
140°	480.6	480.4	480.1	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6
142.5°	493.6	493.4	493.2	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2
145°	512.1	512.0	512.0	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6
147.5°	528.2	528.1	528.2	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1
150°	538.6	538.6	538.8	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3
152.5°	547.5	547.3	547.5	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7
155°	559.4	559.0	559.3	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9
157.5°	569.7	569.2	569.5	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0
160°	576.3	575.7	575.8	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5
162.5°	581.7	581.1	581.2	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3
165°	589.1	588.4	588.4	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6
167.5°	594.7	593.7	593.8	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4
170°	598.2	597.4	597.3	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7
172.5°	600.4	599.5	599.4	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8
175°	602.8	601.9	601.8	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2
177.5°	604.1	603.4	603.2	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332991-927

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**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°	17.2	15.9	14.1	13.8	14.0	13.2	13.8	13.9	14.1	13.8	14.9
90°	2.5	3.6	4.7	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2
92.5°	5.8	5.8	5.9	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8
95°	21.5	18.1	14.6	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2
97.5°	54.9	57.0	59.2	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0
100°	75.9	77.7	79.5	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5
102.5°	99.3	100.6	102.0	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9
105°	136.7	137.2	137.8	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8
107.5°	171.7	172.0	172.2	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7
110°	195.5	195.8	196.1	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	218.9	219.4	220.0	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0
115°	254.3	254.5	254.8	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2
117.5°	286.5	286.8	287.2	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8
120°	308.2	308.6	309.0	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5
122.5°	328.2	328.4	328.7	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9
125°	357.4	357.8	358.2	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5
127.5°	384.5	384.7	384.8	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9
130°	402.3	402.3	402.5	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2
132.5°	418.6	418.8	419.0	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2
135°	442.8	442.7	442.5	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6
137.5°	464.5	464.5	464.5	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1
140°	478.7	479.0	479.1	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9
142.5°	491.5	491.9	492.3	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8
145°	511.0	511.2	511.5	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1
147.5°	526.6	527.2	527.8	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3
150°	537.7	538.1	538.5	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6
152.5°	547.0	547.3	547.6	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6
155°	560.0	560.1	560.2	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8
157.5°	570.9	570.8	570.8	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2
160°	577.2	576.9	576.6	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9
162.5°	582.9	582.5	582.2	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3
165°	590.1	589.6	589.1	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9
167.5°	595.9	595.3	594.8	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6
170°	599.0	598.4	597.9	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0
172.5°	601.2	600.6	600.0	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2
175°	603.6	602.9	602.4	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7
177.5°	604.7	604.1	603.6	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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**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	14.2	13.7	13.8	13.3	13.9
90°	11.7	12.4	12.8	13.0	13.2	13.4	13.5
92.5°	11.4	12.0	12.3	12.4	12.4	12.4	12.4
95°	11.7	12.4	12.7	12.8	12.9	13.0	13.1
97.5°	12.1	12.2	12.3	12.4	12.4	12.5	12.7
100°	14.7	13.1	12.3	12.4	12.4	12.5	12.7
102.5°	40.6	22.1	12.9	13.0	13.0	13.0	13.0
105°	143.7	144.6	143.2	139.7	136.0	132.4	128.8
107.5°	177.1	177.5	177.9	178.3	178.7	179.1	179.5
110°	199.9	200.1	200.3	200.7	200.9	201.2	201.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	222.0	221.9	222.0	222.4	222.8	223.2	223.6
115°	255.5	255.6	255.8	255.8	255.8	255.8	255.8
117.5°	288.8	288.7	288.7	288.6	288.6	288.5	288.5
120°	309.7	309.9	309.9	309.7	309.5	309.3	309.1
122.5°	330.0	330.2	330.1	329.9	329.7	329.5	329.3
125°	358.8	359.1	359.3	359.4	359.5	359.6	359.7
127.5°	386.8	386.7	386.7	386.6	386.5	386.4	386.3
130°	404.3	404.4	404.4	404.4	404.4	404.4	404.4
132.5°	421.3	421.4	421.4	421.3	421.2	421.1	421.0
135°	444.8	445.0	445.2	445.4	445.6	445.8	446.0
137.5°	467.3	467.5	467.5	467.5	467.5	467.4	467.3
140°	481.3	481.6	481.7	481.9	482.0	482.0	482.1
142.5°	494.0	494.2	494.4	494.4	494.4	494.4	494.5
145°	512.3	512.4	512.5	512.7	512.9	513.2	513.3
147.5°	528.4	528.5	528.5	528.7	528.8	528.9	528.9
150°	538.6	538.6	538.7	538.8	538.9	539.0	539.1
152.5°	547.8	548.0	548.0	548.0	547.9	547.8	547.8
155°	560.2	560.5	560.6	560.3	560.0	559.8	559.4
157.5°	570.8	571.2	571.2	570.8	570.2	569.7	569.2
160°	577.5	578.1	578.1	577.5	576.9	576.3	575.7
162.5°	582.9	583.5	583.5	582.8	582.1	581.5	580.7
165°	590.7	591.6	591.5	590.6	589.7	588.8	587.9
167.5°	596.4	597.3	597.2	596.3	595.2	594.2	593.3
170°	599.8	600.6	600.5	599.5	598.5	597.5	596.5
172.5°	602.0	602.8	602.6	601.6	600.5	599.4	598.3
175°	604.6	605.5	605.4	604.2	602.9	601.7	600.6
177.5°	605.4	606.0	605.9	604.9	604.0	602.9	602.0
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2

(END OF REPORT)