

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: P331585-927

Luminaire Tested: **S122DIW-S1005D435U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331585-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D435U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4857.5 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

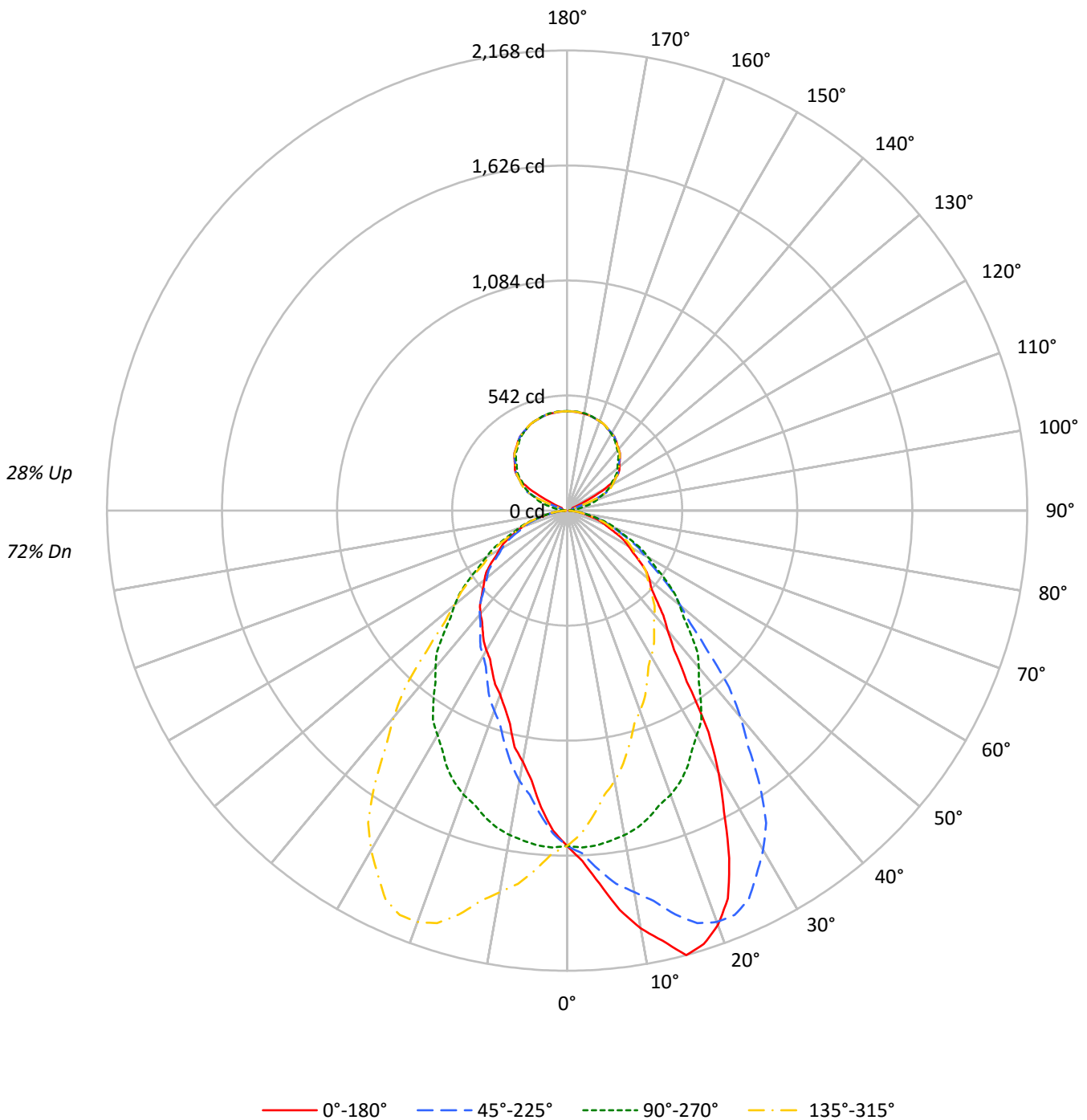
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	76	76	76	72		
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66	66	66	66	66	66	66	62		
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56	56	56	56	56	56	56	53		
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49	49	49	49	49	49	49	46		
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43	43	43	43	43	43	43	40		
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38	38	38	38	38	38	38	35		
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	34	34	34	34	34	34	31		
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30	30	30	30	30	30	30	28		
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	27	27	27	27	27	27	25		
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	25	25	25	25	25	25	23		
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23	23	23	23	23	23	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25504	25504	25504	25504
5°	28593	25671	22749	25671
10°	32765	25460	19687	25460
15°	36247	24993	17392	24993
20°	35696	24493	15856	24493
25°	32186	23826	14883	23826
30°	26597	22760	14171	22760
35°	19385	21646	13665	21646
40°	15483	20331	13384	20331
45°	13531	18810	13001	18810
50°	12717	17337	12750	17337
55°	11724	15842	12408	15842
60°	10743	14250	11880	14250
65°	9788	12825	11366	12825
70°	8884	11434	10607	11434
75°	7879	9881	9395	9881
80°	6778	8182	7569	8182
85°	6076	6076	4502	6076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.1
10°-20°	437.4	9.0
20°-30°	634.7	13.1
30°-40°	669.8	13.8
40°-50°	593.0	12.2
50°-60°	473.3	9.7
60°-70°	321.7	6.6
70°-80°	164.9	3.4
80°-90°	40.9	0.8
90°-100°	15.6	0.3
100°-110°	57.2	1.2
110°-120°	153.0	3.1
120°-130°	252.6	5.2
130°-140°	268.6	5.5
140°-150°	249.7	5.1
150°-160°	200.7	4.1
160°-170°	129.3	2.7
170°-180°	44.5	0.9
0°-30°	1222.5	25.2
0°-40°	1892.3	39.0
0°-60°	2958.6	60.9
0°-90°	3486.2	71.8
90°-120°	225.9	4.6
90°-150°	996.7	20.5
90°-180°	1371.0	28.2
0°-180°	4857.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1764	1584	1404	1584	1764	176
15°	2168	1495	1040	1495	2168	598
25°	1807	1337	835	1337	1807	817
35°	984	1098	693	1098	984	640
45°	593	824	569	824	593	466
55°	416	563	441	563	416	373
65°	256	336	298	336	256	255
75°	126	158	151	158	126	135
85°	33	33	24	33	33	36
90°	9	0	9	0	9	6
95°	15	22	15	22	15	14
105°	26	103	26	103	26	27
115°	28	195	28	195	28	70
125°	290	275	290	275	290	250
135°	352	341	352	341	352	271
145°	401	395	401	395	401	251
155°	436	435	436	435	436	201
165°	457	458	457	458	457	129
175°	466	469	466	469	466	44
180°	468	468	468	468	468	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1652.5	1653.0	1653.9	1646.2	1645.2	1645.2	1638.4	1632.6	1625.8	1616.5	1617.6
5°	1764.2	1770.8	1773.3	1766.0	1755.1	1753.9	1743.6	1726.6	1710.8	1698.0	1688.9
7.5°	1897.5	1900.2	1894.3	1884.7	1876.5	1861.9	1842.8	1823.9	1797.6	1773.5	1755.5
10°	1998.5	2002.2	1991.9	1977.9	1966.4	1949.4	1921.4	1892.9	1858.3	1825.0	1798.2
12.5°	2075.3	2084.2	2071.0	2069.2	2049.5	2026.1	1992.8	1978.4	1929.7	1883.2	1854.6
15°	2168.5	2167.9	2169.2	2157.6	2143.0	2139.4	2104.2	2065.9	1997.3	1970.0	1922.6
17.5°	2141.6	2150.8	2155.1	2154.9	2154.6	2152.3	2141.0	2116.8	2082.4	2038.1	1983.5
20°	2077.5	2089.6	2091.4	2105.4	2113.3	2123.6	2127.9	2121.1	2099.9	2062.9	2015.5
22.5°	1978.4	1981.8	1987.5	2009.2	2026.3	2052.2	2065.7	2088.1	2080.0	2061.9	2022.4
25°	1806.7	1800.6	1821.9	1832.8	1872.2	1913.5	1943.3	1976.1	2005.3	2022.8	2011.3
27.5°	1600.5	1591.4	1623.3	1652.3	1684.3	1729.0	1775.4	1830.1	1875.7	1932.6	1952.2
30°	1426.6	1432.1	1462.4	1493.4	1542.0	1605.1	1657.3	1717.5	1782.4	1846.2	1890.5
32.5°	1239.2	1260.2	1279.4	1326.8	1369.6	1440.0	1516.5	1591.7	1672.7	1745.2	1813.8
35°	983.5	1007.7	1034.5	1069.1	1129.2	1199.0	1273.7	1375.1	1485.6	1584.5	1665.9
37.5°	827.8	823.9	839.2	864.3	912.9	969.3	1055.3	1155.4	1285.5	1401.8	1516.5
40°	734.6	732.1	743.1	766.1	803.2	844.5	919.7	1007.7	1128.5	1270.7	1407.2
42.5°	670.5	671.9	678.0	694.3	719.6	753.6	810.0	884.9	995.5	1129.3	1276.1
45°	592.6	596.8	603.5	611.3	625.9	653.9	685.4	738.9	826.2	937.9	1082.4
47.5°	536.4	536.5	543.4	550.2	558.9	574.6	600.4	633.9	695.6	786.6	910.8
50°	506.3	502.1	506.9	512.4	521.5	532.4	549.4	581.0	622.3	695.7	799.5
52.5°	469.4	469.5	473.9	475.9	484.1	495.0	510.6	532.4	569.8	627.2	712.6
55°	416.5	419.5	421.9	425.6	432.8	440.8	452.9	467.5	496.6	539.7	602.9
57.5°	366.7	367.7	370.1	377.0	381.6	388.9	400.4	413.7	432.6	464.5	512.0
60°	332.7	332.7	337.5	340.6	346.7	353.9	363.1	375.8	392.8	418.9	457.2
62.5°	301.6	301.1	303.1	308.0	312.7	319.5	328.5	339.4	355.4	378.6	410.0
65°	256.2	255.0	258.6	259.8	264.7	271.4	278.7	290.2	302.9	320.0	347.8
67.5°	212.5	214.0	215.9	218.2	220.9	227.9	232.7	240.9	251.7	265.8	284.7
70°	188.2	188.2	188.2	190.0	193.7	197.3	202.2	208.8	219.2	231.3	248.3
72.5°	161.0	163.0	164.9	163.8	168.4	170.6	176.4	180.2	190.0	197.8	212.9
75°	126.3	126.3	126.3	129.3	131.1	132.9	136.6	140.2	145.1	154.8	162.7
77.5°	94.2	94.0	94.6	95.3	97.3	99.4	100.5	103.8	108.3	112.8	119.5
80°	72.9	74.1	74.7	75.9	75.9	77.1	77.7	82.0	85.0	88.0	92.3
82.5°	56.3	56.6	56.7	57.0	57.4	58.1	59.7	61.1	62.2	64.7	68.0
85°	32.8	32.2	32.2	33.4	32.8	32.8	34.0	35.2	35.2	35.8	37.6
87.5°	14.4	14.4	14.9	14.3	14.3	14.7	14.7	14.1	14.6	15.0	15.3
90°	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5	7.1	6.7	6.2
92.5°	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2	8.1	7.8	7.5
95°	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9	13.5	13.2	12.7
97.5°	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3	18.0	17.7	16.5
100°	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5	19.9	19.3	18.0
102.5°	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4	20.6	19.8	30.6
105°	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3	21.5	20.7	41.2
107.5°	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3	28.0	28.9	53.6
110°	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2	51.7	59.3	81.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6	122.0	149.5	154.8
115°	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3	174.0	208.9	207.0
117.5°	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5	223.0	231.4	230.1
120°	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0	249.1	248.2	246.8
122.5°	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2	264.7	264.2	262.7
125°	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2	286.6	286.1	284.7
127.5°	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4	306.7	305.9	304.8
130°	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3	319.4	318.6	317.8
132.5°	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8	332.1	331.4	330.5
135°	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6	349.8	349.1	348.4
137.5°	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2	366.4	365.7	364.9
140°	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9	377.2	376.5	375.7
142.5°	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8	387.1	386.5	385.6
145°	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6	401.1	400.5	399.3
147.5°	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7	413.3	412.9	411.6
150°	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1	420.6	420.2	419.0
152.5°	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9	427.4	427.0	425.8
155°	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0	436.6	436.1	435.2
157.5°	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7	444.2	443.7	443.1
160°	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2	448.8	448.3	447.8
162.5°	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4	452.9	452.3	451.9
165°	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5	458.0	457.4	457.2
167.5°	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8	462.2	461.7	461.5
170°	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9	464.4	463.9	463.7
172.5°	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5	466.0	465.5	465.3
175°	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3	467.8	467.2	467.1
177.5°	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5	468.1	467.6	467.6
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1621.0	1617.1	1614.6	1605.9	1598.1	1590.3	1587.9	1588.9	1578.2	1568.0	1563.6
5°	1684.1	1671.9	1660.4	1644.0	1624.6	1603.3	1592.4	1583.9	1562.7	1539.6	1526.2
7.5°	1740.7	1723.3	1701.1	1670.2	1642.0	1608.5	1587.3	1568.4	1537.4	1504.8	1484.9
10°	1775.1	1751.4	1722.9	1685.3	1650.7	1610.0	1581.4	1552.9	1516.5	1477.7	1453.3
12.5°	1804.7	1772.8	1744.8	1696.5	1655.5	1604.6	1570.8	1530.6	1492.2	1446.0	1422.3
15°	1875.3	1816.4	1763.0	1708.3	1658.0	1586.9	1549.3	1495.2	1444.9	1387.8	1360.5
17.5°	1929.8	1863.6	1779.5	1710.1	1651.3	1572.6	1517.3	1452.6	1393.1	1327.9	1290.7
20°	1960.9	1885.0	1794.5	1712.0	1641.6	1551.7	1491.6	1425.5	1355.7	1282.1	1242.1
22.5°	1979.3	1899.6	1810.1	1704.7	1622.2	1534.7	1459.0	1386.6	1315.8	1236.5	1194.5
25°	1985.2	1912.3	1817.7	1698.7	1597.8	1498.9	1407.9	1337.4	1251.8	1177.7	1116.4
27.5°	1956.3	1904.1	1813.0	1687.2	1569.8	1454.1	1352.6	1272.8	1182.5	1102.1	1040.5
30°	1920.8	1890.5	1801.8	1675.5	1547.4	1423.0	1311.3	1220.8	1131.0	1049.6	986.5
32.5°	1866.0	1859.4	1781.5	1659.1	1523.7	1383.7	1268.1	1176.6	1077.1	997.2	937.0
35°	1758.2	1787.2	1738.1	1622.2	1478.8	1327.7	1202.6	1098.2	995.1	918.5	862.1
37.5°	1613.7	1686.0	1673.2	1568.1	1418.4	1266.8	1128.7	1019.5	921.2	844.0	788.6
40°	1514.1	1606.4	1619.7	1526.9	1375.7	1219.6	1073.3	964.6	868.7	798.4	742.4
42.5°	1407.2	1515.0	1551.7	1477.3	1329.0	1170.1	1023.8	911.2	816.3	747.8	698.3
45°	1228.1	1370.8	1437.0	1394.5	1251.3	1088.5	937.9	823.8	737.6	673.3	635.0
47.5°	1060.7	1216.6	1305.6	1290.5	1164.7	1003.5	854.7	745.1	661.2	609.9	575.7
50°	942.2	1102.5	1209.9	1214.8	1102.5	942.8	793.4	690.2	613.1	565.2	537.3
52.5°	839.2	992.2	1109.4	1135.1	1033.0	879.6	738.6	635.9	568.0	523.9	498.9
55°	704.8	834.2	964.1	1011.4	929.5	783.8	653.2	562.8	499.0	468.7	446.8
57.5°	586.0	693.8	813.7	866.1	815.6	690.9	568.5	489.9	438.2	411.6	394.8
60°	523.3	608.3	715.2	777.7	734.0	622.9	516.0	441.3	398.9	375.2	359.4
62.5°	465.0	540.3	630.7	687.9	664.0	559.3	463.6	397.7	361.0	338.7	327.3
65°	383.7	443.1	513.0	565.8	550.0	470.5	392.2	335.7	306.6	289.0	279.9
67.5°	315.9	358.9	407.3	453.6	440.8	384.5	321.6	277.7	256.0	240.7	235.3
70°	273.2	305.9	349.1	386.1	375.8	329.6	279.9	242.2	223.4	210.6	205.2
72.5°	232.4	259.4	292.2	322.5	315.5	277.2	235.7	207.2	192.8	181.0	176.6
75°	175.5	196.1	216.1	236.1	234.3	204.6	180.3	158.4	146.9	137.8	136.0
77.5°	129.5	141.1	154.7	166.6	163.3	146.3	127.2	114.7	106.2	100.1	99.2
80°	98.9	105.6	115.3	123.8	119.6	112.3	97.1	88.0	82.0	75.9	73.4
82.5°	71.8	78.4	84.3	88.9	85.6	78.8	69.5	63.3	59.7	55.5	54.5
85°	37.6	41.3	43.7	44.9	43.7	39.5	35.2	32.8	29.8	28.0	27.3
87.5°	15.7	15.5	15.4	16.2	14.7	14.5	12.4	10.8	10.5	10.1	9.3
90°	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8	6.7	6.7	6.6
95°	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0	19.5	17.0	14.6
97.5°	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6	36.7	29.7	22.7
100°	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0	49.6	39.3	29.0
102.5°	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8	75.7	73.4	71.3
105°	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9	105.2	107.4	109.7
107.5°	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6	133.4	135.2	137.0
110°	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0	151.5	153.1	154.7



TEST NUMBER: P331585-927

CATALOG NUMBER: S122DIW-S1005D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3	168.7	170.2	171.5
115°	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7	196.0	197.3	198.5
117.5°	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1	220.5	222.0	223.4
120°	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0	238.1	239.2	240.4
122.5°	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2	253.3	254.5	255.7
125°	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3	276.2	277.3	278.2
127.5°	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2	297.3	298.3	299.4
130°	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5	310.7	311.9	313.1
132.5°	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1	324.0	325.0	326.1
135°	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6	341.8	343.0	344.2
137.5°	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5	359.3	360.1	361.0
140°	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1	370.7	371.3	371.9
142.5°	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9	380.4	380.9	381.4
145°	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1	395.1	395.0	394.9
147.5°	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4	408.2	407.9	407.7
150°	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2	416.6	416.1	415.6
152.5°	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5	423.9	423.3	422.7
155°	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1	434.4	433.7	433.1
157.5°	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4	442.8	442.3	441.7
160°	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	447.8	447.4	446.9
162.5°	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7	452.2	451.7	451.3
165°	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4	458.0	457.6	457.1
167.5°	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8	462.3	461.9	461.4
170°	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2	464.8	464.3	463.9
172.5°	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8	466.4	466.0	465.5
175°	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0	468.4	467.9	467.4
177.5°	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3	468.9	468.4	468.0
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331585-927

CATALOG NUMBER: S122DIW-S1005D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1558.8	1555.8	1545.6	1540.3	1531.6	1523.3	1518.0	1520.4	1522.3	1521.4	1519.9
5°	1514.1	1502.5	1484.9	1469.7	1458.8	1438.8	1430.3	1426.1	1422.4	1418.2	1413.9
7.5°	1460.9	1442.7	1417.5	1395.8	1375.4	1350.5	1336.3	1327.9	1319.1	1309.5	1301.0
10°	1423.0	1397.5	1370.8	1340.5	1316.2	1293.7	1273.7	1260.3	1248.2	1236.7	1228.1
12.5°	1383.2	1353.8	1320.8	1279.3	1252.5	1220.4	1217.3	1193.8	1174.8	1167.7	1157.7
15°	1319.8	1278.5	1236.7	1187.5	1166.3	1137.1	1118.9	1100.7	1084.3	1072.7	1069.7
17.5°	1247.8	1194.4	1152.7	1117.4	1082.6	1052.7	1035.9	1021.4	1007.9	992.4	990.4
20°	1192.9	1146.8	1101.3	1070.3	1034.5	1004.1	983.5	968.9	957.4	948.2	940.4
22.5°	1141.0	1090.4	1048.8	1014.9	979.6	955.1	938.8	924.7	915.1	905.1	897.6
25°	1057.6	1018.1	972.6	934.3	905.1	889.4	876.0	863.9	857.9	851.1	842.6
27.5°	984.6	940.7	898.1	868.5	842.9	828.9	819.4	811.2	805.5	801.6	796.8
30°	933.1	888.7	855.4	826.2	805.0	791.1	785.0	780.1	773.4	771.0	768.6
32.5°	883.5	843.6	815.1	789.8	769.5	760.4	754.9	750.5	745.3	742.8	738.0
35°	813.5	780.1	752.2	738.2	721.8	713.9	709.7	703.6	698.8	696.3	695.7
37.5°	747.6	718.6	700.2	682.2	675.3	670.5	664.6	660.5	659.1	658.7	658.1
40°	704.8	681.1	664.8	650.2	647.1	639.8	635.0	631.4	631.4	632.0	631.4
42.5°	666.0	644.8	630.3	617.7	614.1	609.7	604.9	604.7	605.6	607.7	605.6
45°	607.1	591.9	581.6	575.5	568.9	564.6	564.0	565.8	566.4	567.0	568.9
47.5°	552.9	542.9	533.5	526.8	523.9	523.2	522.4	525.6	528.5	529.7	532.4
50°	520.9	509.4	501.5	497.2	494.8	493.5	494.8	498.4	500.8	503.9	505.7
52.5°	485.0	476.8	471.3	468.1	467.1	467.9	468.1	472.2	476.1	477.2	478.0
55°	435.3	429.2	428.0	422.6	424.9	424.4	427.4	429.8	433.5	437.1	437.7
57.5°	385.7	380.9	377.6	378.1	378.8	381.5	384.0	388.3	392.2	396.1	396.4
60°	352.8	350.3	348.5	348.5	349.7	353.3	356.3	360.6	363.1	365.4	367.3
62.5°	322.6	320.2	318.4	319.3	322.5	324.6	328.2	330.5	333.0	335.3	336.2
65°	275.0	273.8	275.6	276.9	277.4	280.5	284.7	286.5	289.0	290.2	294.5
67.5°	231.2	231.4	231.2	232.9	236.4	237.1	241.1	245.4	245.9	248.2	251.0
70°	201.5	202.8	204.0	205.2	208.3	209.5	212.5	214.3	216.7	218.6	220.4
72.5°	174.4	174.6	175.8	175.5	178.1	180.8	183.3	185.1	187.6	189.9	191.7
75°	134.2	134.2	135.4	136.0	139.0	142.0	141.5	142.7	145.1	147.5	148.8
77.5°	98.0	96.6	98.0	98.6	99.6	102.1	102.6	104.3	107.1	106.2	107.6
80°	74.7	72.9	74.7	75.3	75.3	78.3	78.3	79.5	81.4	79.5	81.4
82.5°	53.3	52.4	53.8	53.9	54.9	55.0	56.0	56.2	58.1	57.2	58.1
85°	26.7	26.1	26.7	26.1	26.7	27.3	27.3	26.7	26.7	28.0	26.1
87.5°	9.0	8.6	8.2	8.4	8.0	7.7	7.3	7.4	7.4	6.5	6.6
90°	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5	7.9	8.2	8.6
92.5°	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2	8.5	8.6	8.8
95°	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9	14.3	14.7	14.9
97.5°	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3	18.6	18.9	19.1
100°	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5	21.1	21.7	22.1
102.5°	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4	22.2	23.0	23.4
105°	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3	23.1	24.0	24.6
107.5°	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3	26.4	25.5	25.3
110°	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2	36.7	29.2	25.5



TEST NUMBER: P331585-927

CATALOG NUMBER: S122DIW-S1005D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6	67.1	39.7	26.1
115°	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3	104.4	69.6	49.4
117.5°	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5	206.1	197.6	184.6
120°	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0	250.9	251.8	247.2
122.5°	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2	265.8	266.3	265.6
125°	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2	287.7	288.2	288.6
127.5°	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4	308.2	309.0	309.3
130°	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3	321.1	321.9	322.3
132.5°	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8	333.4	334.1	334.5
135°	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6	351.3	352.1	352.4
137.5°	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2	367.9	368.6	368.8
140°	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9	378.6	379.2	379.4
142.5°	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8	388.4	389.0	389.1
145°	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6	402.1	402.7	402.7
147.5°	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7	414.1	414.5	414.5
150°	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1	421.5	422.0	422.1
152.5°	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9	428.3	428.8	428.7
155°	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0	437.4	437.9	437.8
157.5°	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7	445.2	445.8	445.7
160°	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2	449.6	450.1	450.0
162.5°	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4	453.9	454.4	454.3
165°	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5	459.0	459.5	459.5
167.5°	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8	463.3	463.8	463.7
170°	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9	465.5	466.0	465.9
172.5°	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5	467.1	467.6	467.5
175°	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3	468.8	469.4	469.3
177.5°	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5	468.9	469.4	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331585-927

CATALOG NUMBER: S122DIW-S1005D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1515.0	1514.1	1514.1	1509.7	1514.1	1514.1	1515.0	1519.9	1521.4	1522.3	1520.4
5°	1405.4	1403.6	1400.6	1403.6	1400.6	1403.6	1405.4	1413.9	1418.2	1422.4	1426.1
7.5°	1297.0	1289.7	1288.6	1281.4	1288.6	1289.7	1297.0	1301.0	1309.5	1319.1	1327.9
10°	1217.8	1213.0	1212.4	1200.8	1212.4	1213.0	1217.8	1228.1	1236.7	1248.2	1260.3
12.5°	1157.6	1146.0	1148.3	1141.5	1148.3	1146.0	1157.6	1157.7	1167.7	1174.8	1193.8
15°	1053.3	1053.3	1050.9	1040.5	1050.9	1053.3	1053.3	1069.7	1072.7	1084.3	1100.7
17.5°	978.4	977.2	971.4	974.2	971.4	977.2	978.4	990.4	992.4	1007.9	1021.4
20°	933.7	930.1	922.8	922.8	922.8	930.1	933.7	940.4	948.2	957.4	968.9
22.5°	891.4	891.2	883.4	885.9	883.4	891.2	891.4	897.6	905.1	915.1	924.7
25°	842.0	837.2	833.5	835.4	833.5	837.2	842.0	842.6	851.1	857.9	863.9
27.5°	795.2	792.5	792.3	787.3	792.3	792.5	795.2	796.8	801.6	805.5	811.2
30°	767.9	761.9	763.1	760.1	763.1	761.9	767.9	768.6	771.0	773.4	780.1
32.5°	736.9	734.7	733.5	730.9	733.5	734.7	736.9	738.0	742.8	745.3	750.5
35°	694.5	695.1	692.1	693.3	692.1	695.1	694.5	695.7	696.3	698.8	703.6
37.5°	657.5	659.4	658.0	658.3	658.0	659.4	657.5	658.1	658.7	659.1	660.5
40°	633.2	633.2	633.2	635.0	633.2	633.2	633.2	631.4	632.0	631.4	631.4
42.5°	609.9	609.0	607.9	607.8	607.9	609.0	609.9	605.6	607.7	605.6	604.7
45°	570.1	571.9	572.5	569.4	572.5	571.9	570.1	568.9	567.0	566.4	565.8
47.5°	534.0	534.2	534.0	536.7	534.0	534.2	534.0	532.4	529.7	528.5	525.6
50°	508.7	507.6	508.7	507.6	508.7	507.6	508.7	505.7	503.9	500.8	498.4
52.5°	482.0	482.3	481.6	481.3	481.6	482.3	482.0	478.0	477.2	476.1	472.2
55°	440.1	441.3	440.8	440.8	440.8	441.3	440.1	437.7	437.1	433.5	429.8
57.5°	396.8	397.9	398.7	396.1	398.7	397.9	396.8	396.4	396.1	392.2	388.3
60°	366.7	369.7	369.1	367.9	369.1	369.7	366.7	367.3	365.4	363.1	360.6
62.5°	339.0	340.1	340.0	339.8	340.0	340.1	339.0	336.2	335.3	333.0	330.5
65°	296.3	297.5	295.6	297.5	295.6	297.5	296.3	294.5	290.2	289.0	286.5
67.5°	250.3	250.6	251.9	252.8	251.9	250.6	250.3	251.0	248.2	245.9	245.4
70°	221.6	221.0	222.8	224.7	222.8	221.0	221.6	220.4	218.6	216.7	214.3
72.5°	191.5	192.8	192.2	193.5	192.2	192.8	191.5	191.7	189.9	187.6	185.1
75°	147.5	149.3	148.8	150.6	148.8	149.3	147.5	148.8	147.5	145.1	142.7
77.5°	106.6	106.9	106.6	107.6	106.6	106.9	106.6	107.6	106.2	107.1	104.3
80°	81.4	80.2	78.9	81.4	78.9	80.2	81.4	81.4	79.5	81.4	79.5
82.5°	56.6	57.3	56.1	56.1	56.1	57.3	56.6	58.1	57.2	58.1	56.2
85°	26.1	25.5	24.3	24.3	24.3	25.5	26.1	26.1	28.0	26.7	26.7
87.5°	6.6	6.1	6.2	5.7	6.2	6.1	6.6	6.6	6.5	7.4	7.4
90°	8.7	8.9	9.0	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5
92.5°	8.9	9.0	9.0	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2
95°	14.8	14.7	14.7	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9
97.5°	19.2	19.3	19.3	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3
100°	22.3	22.4	22.5	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5
102.5°	23.7	23.9	24.1	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4
105°	24.8	25.1	25.4	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3
107.5°	25.6	25.9	26.1	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3
110°	25.8	26.1	26.5	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	26.3	26.5	26.8	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6
115°	44.0	38.6	33.2	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3
117.5°	166.8	148.9	131.2	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5
120°	237.0	226.9	216.7	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0
122.5°	263.6	261.7	259.7	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2
125°	288.8	289.1	289.3	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2
127.5°	309.4	309.4	309.5	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4
130°	322.3	322.2	322.1	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3
132.5°	334.4	334.3	334.3	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8
135°	352.3	352.1	352.0	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6
137.5°	368.6	368.4	368.1	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2
140°	379.0	378.6	378.3	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9
142.5°	388.7	388.4	388.0	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8
145°	402.3	402.0	401.6	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6
147.5°	414.2	413.8	413.5	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7
150°	421.7	421.3	420.9	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1
152.5°	428.3	427.8	427.2	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9
155°	437.2	436.7	436.0	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0
157.5°	445.1	444.5	443.9	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7
160°	449.6	449.0	448.5	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2
162.5°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4
165°	459.0	458.5	458.0	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5
167.5°	463.0	462.4	461.7	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8
170°	465.2	464.5	463.9	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9
172.5°	466.8	466.2	465.5	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5
175°	468.5	467.8	467.0	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3
177.5°	468.7	468.2	467.6	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331585-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1518.0	1523.3	1531.6	1540.3	1545.6	1555.8	1558.8	1563.6	1568.0	1578.2	1588.9
5°	1430.3	1438.8	1458.8	1469.7	1484.9	1502.5	1514.1	1526.2	1539.6	1562.7	1583.9
7.5°	1336.3	1350.5	1375.4	1395.8	1417.5	1442.7	1460.9	1484.9	1504.8	1537.4	1568.4
10°	1273.7	1293.7	1316.2	1340.5	1370.8	1397.5	1423.0	1453.3	1477.7	1516.5	1552.9
12.5°	1217.3	1220.4	1252.5	1279.3	1320.8	1353.8	1383.2	1422.3	1446.0	1492.2	1530.6
15°	1118.9	1137.1	1166.3	1187.5	1236.7	1278.5	1319.8	1360.5	1387.8	1444.9	1495.2
17.5°	1035.9	1052.7	1082.6	1117.4	1152.7	1194.4	1247.8	1290.7	1327.9	1393.1	1452.6
20°	983.5	1004.1	1034.5	1070.3	1101.3	1146.8	1192.9	1242.1	1282.1	1355.7	1425.5
22.5°	938.8	955.1	979.6	1014.9	1048.8	1090.4	1141.0	1194.5	1236.5	1315.8	1386.6
25°	876.0	889.4	905.1	934.3	972.6	1018.1	1057.6	1116.4	1177.7	1251.8	1337.4
27.5°	819.4	828.9	842.9	868.5	898.1	940.7	984.6	1040.5	1102.1	1182.5	1272.8
30°	785.0	791.1	805.0	826.2	855.4	888.7	933.1	986.5	1049.6	1131.0	1220.8
32.5°	754.9	760.4	769.5	789.8	815.1	843.6	883.5	937.0	997.2	1077.1	1176.6
35°	709.7	713.9	721.8	738.2	752.2	780.1	813.5	862.1	918.5	995.1	1098.2
37.5°	664.6	670.5	675.3	682.2	700.2	718.6	747.6	788.6	844.0	921.2	1019.5
40°	635.0	639.8	647.1	650.2	664.8	681.1	704.8	742.4	798.4	868.7	964.6
42.5°	604.9	609.7	614.1	617.7	630.3	644.8	666.0	698.3	747.8	816.3	911.2
45°	564.0	564.6	568.9	575.5	581.6	591.9	607.1	635.0	673.3	737.6	823.8
47.5°	522.4	523.2	523.9	526.8	533.5	542.9	552.9	575.7	609.9	661.2	745.1
50°	494.8	493.5	494.8	497.2	501.5	509.4	520.9	537.3	565.2	613.1	690.2
52.5°	468.1	467.9	467.1	468.1	471.3	476.8	485.0	498.9	523.9	568.0	635.9
55°	427.4	424.4	424.9	422.6	428.0	429.2	435.3	446.8	468.7	499.0	562.8
57.5°	384.0	381.5	378.8	378.1	377.6	380.9	385.7	394.8	411.6	438.2	489.9
60°	356.3	353.3	349.7	348.5	348.5	350.3	352.8	359.4	375.2	398.9	441.3
62.5°	328.2	324.6	322.5	319.3	318.4	320.2	322.6	327.3	338.7	361.0	397.7
65°	284.7	280.5	277.4	276.9	275.6	273.8	275.0	279.9	289.0	306.6	335.7
67.5°	241.1	237.1	236.4	232.9	231.2	231.4	231.2	235.3	240.7	256.0	277.7
70°	212.5	209.5	208.3	205.2	204.0	202.8	201.5	205.2	210.6	223.4	242.2
72.5°	183.3	180.8	178.1	175.5	175.8	174.6	174.4	176.6	181.0	192.8	207.2
75°	141.5	142.0	139.0	136.0	135.4	134.2	134.2	136.0	137.8	146.9	158.4
77.5°	102.6	102.1	99.6	98.6	98.0	96.6	98.0	99.2	100.1	106.2	114.7
80°	78.3	78.3	75.3	75.3	74.7	72.9	74.7	73.4	75.9	82.0	88.0
82.5°	56.0	55.0	54.9	53.9	53.8	52.4	53.3	54.5	55.5	59.7	63.3
85°	27.3	27.3	26.7	26.1	26.7	26.1	26.7	27.3	28.0	29.8	32.8
87.5°	7.3	7.7	8.0	8.4	8.2	8.6	9.0	9.3	10.1	10.5	10.8
90°	7.1	6.7	6.2	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3
92.5°	8.1	7.8	7.5	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8
95°	13.5	13.2	12.7	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0
97.5°	18.0	17.7	16.5	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6
100°	19.9	19.3	18.0	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0
102.5°	20.6	19.8	30.6	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8
105°	21.5	20.7	41.2	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9
107.5°	28.0	28.9	53.6	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6
110°	51.7	59.3	81.0	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0



TEST NUMBER: P331585-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.0	149.5	154.8	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3
115°	174.0	208.9	207.0	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7
117.5°	223.0	231.4	230.1	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1
120°	249.1	248.2	246.8	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0
122.5°	264.7	264.2	262.7	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2
125°	286.6	286.1	284.7	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3
127.5°	306.7	305.9	304.8	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2
130°	319.4	318.6	317.8	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5
132.5°	332.1	331.4	330.5	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1
135°	349.8	349.1	348.4	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6
137.5°	366.4	365.7	364.9	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5
140°	377.2	376.5	375.7	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1
142.5°	387.1	386.5	385.6	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9
145°	401.1	400.5	399.3	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1
147.5°	413.3	412.9	411.6	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4
150°	420.6	420.2	419.0	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2
152.5°	427.4	427.0	425.8	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5
155°	436.6	436.1	435.2	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1
157.5°	444.2	443.7	443.1	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4
160°	448.8	448.3	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3
162.5°	452.9	452.3	451.9	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7
165°	458.0	457.4	457.2	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4
167.5°	462.2	461.7	461.5	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8
170°	464.4	463.9	463.7	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2
172.5°	466.0	465.5	465.3	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8
175°	467.8	467.2	467.1	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0
177.5°	468.1	467.6	467.6	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331585-927

CATALOG NUMBER: S122DIW-S1005D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.9	1590.3	1598.1	1605.9	1614.6	1617.1	1621.0	1617.6	1616.5	1625.8	1632.6
5°	1592.4	1603.3	1624.6	1644.0	1660.4	1671.9	1684.1	1688.9	1698.0	1710.8	1726.6
7.5°	1587.3	1608.5	1642.0	1670.2	1701.1	1723.3	1740.7	1755.5	1773.5	1797.6	1823.9
10°	1581.4	1610.0	1650.7	1685.3	1722.9	1751.4	1775.1	1798.2	1825.0	1858.3	1892.9
12.5°	1570.8	1604.6	1655.5	1696.5	1744.8	1772.8	1804.7	1854.6	1883.2	1929.7	1978.4
15°	1549.3	1586.9	1658.0	1708.3	1763.0	1816.4	1875.3	1922.6	1970.0	1997.3	2065.9
17.5°	1517.3	1572.6	1651.3	1710.1	1779.5	1863.6	1929.8	1983.5	2038.1	2082.4	2116.8
20°	1491.6	1551.7	1641.6	1712.0	1794.5	1885.0	1960.9	2015.5	2062.9	2099.9	2121.1
22.5°	1459.0	1534.7	1622.2	1704.7	1810.1	1899.6	1979.3	2022.4	2061.9	2080.0	2088.1
25°	1407.9	1498.9	1597.8	1698.7	1817.7	1912.3	1985.2	2011.3	2022.8	2005.3	1976.1
27.5°	1352.6	1454.1	1569.8	1687.2	1813.0	1904.1	1956.3	1952.2	1932.6	1875.7	1830.1
30°	1311.3	1423.0	1547.4	1675.5	1801.8	1890.5	1920.8	1890.5	1846.2	1782.4	1717.5
32.5°	1268.1	1383.7	1523.7	1659.1	1781.5	1859.4	1866.0	1813.8	1745.2	1672.7	1591.7
35°	1202.6	1327.7	1478.8	1622.2	1738.1	1787.2	1758.2	1665.9	1584.5	1485.6	1375.1
37.5°	1128.7	1266.8	1418.4	1568.1	1673.2	1686.0	1613.7	1516.5	1401.8	1285.5	1155.4
40°	1073.3	1219.6	1375.7	1526.9	1619.7	1606.4	1514.1	1407.2	1270.7	1128.5	1007.7
42.5°	1023.8	1170.1	1329.0	1477.3	1551.7	1515.0	1407.2	1276.1	1129.3	995.5	884.9
45°	937.9	1088.5	1251.3	1394.5	1437.0	1370.8	1228.1	1082.4	937.9	826.2	738.9
47.5°	854.7	1003.5	1164.7	1290.5	1305.6	1216.6	1060.7	910.8	786.6	695.6	633.9
50°	793.4	942.8	1102.5	1214.8	1209.9	1102.5	942.2	799.5	695.7	622.3	581.0
52.5°	738.6	879.6	1033.0	1135.1	1109.4	992.2	839.2	712.6	627.2	569.8	532.4
55°	653.2	783.8	929.5	1011.4	964.1	834.2	704.8	602.9	539.7	496.6	467.5
57.5°	568.5	690.9	815.6	866.1	813.7	693.8	586.0	512.0	464.5	432.6	413.7
60°	516.0	622.9	734.0	777.7	715.2	608.3	523.3	457.2	418.9	392.8	375.8
62.5°	463.6	559.3	664.0	687.9	630.7	540.3	465.0	410.0	378.6	355.4	339.4
65°	392.2	470.5	550.0	565.8	513.0	443.1	383.7	347.8	320.0	302.9	290.2
67.5°	321.6	384.5	440.8	453.6	407.3	358.9	315.9	284.7	265.8	251.7	240.9
70°	279.9	329.6	375.8	386.1	349.1	305.9	273.2	248.3	231.3	219.2	208.8
72.5°	235.7	277.2	315.5	322.5	292.2	259.4	232.4	212.9	197.8	190.0	180.2
75°	180.3	204.6	234.3	236.1	216.1	196.1	175.5	162.7	154.8	145.1	140.2
77.5°	127.2	146.3	163.3	166.6	154.7	141.1	129.5	119.5	112.8	108.3	103.8
80°	97.1	112.3	119.6	123.8	115.3	105.6	98.9	92.3	88.0	85.0	82.0
82.5°	69.5	78.8	85.6	88.9	84.3	78.4	71.8	68.0	64.7	62.2	61.1
85°	35.2	39.5	43.7	44.9	43.7	41.3	37.6	37.6	35.8	35.2	35.2
87.5°	12.4	14.5	14.7	16.2	15.4	15.5	15.7	15.3	15.0	14.6	14.1
90°	1.2	2.0	2.9	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5
92.5°	6.7	6.7	6.6	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2
95°	19.5	17.0	14.6	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9
97.5°	36.7	29.7	22.7	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3
100°	49.6	39.3	29.0	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5
102.5°	75.7	73.4	71.3	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4
105°	105.2	107.4	109.7	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3
107.5°	133.4	135.2	137.0	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3
110°	151.5	153.1	154.7	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.7	170.2	171.5	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6
115°	196.0	197.3	198.5	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3
117.5°	220.5	222.0	223.4	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5
120°	238.1	239.2	240.4	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0
122.5°	253.3	254.5	255.7	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2
125°	276.2	277.3	278.2	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2
127.5°	297.3	298.3	299.4	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4
130°	310.7	311.9	313.1	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3
132.5°	324.0	325.0	326.1	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8
135°	341.8	343.0	344.2	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6
137.5°	359.3	360.1	361.0	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2
140°	370.7	371.3	371.9	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9
142.5°	380.4	380.9	381.4	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8
145°	395.1	395.0	394.9	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6
147.5°	408.2	407.9	407.7	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7
150°	416.6	416.1	415.6	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1
152.5°	423.9	423.3	422.7	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9
155°	434.4	433.7	433.1	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0
157.5°	442.8	442.3	441.7	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7
160°	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2
162.5°	452.2	451.7	451.3	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4
165°	458.0	457.6	457.1	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5
167.5°	462.3	461.9	461.4	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8
170°	464.8	464.3	463.9	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9
172.5°	466.4	466.0	465.5	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5
175°	468.4	467.9	467.4	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3
177.5°	468.9	468.4	468.0	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1638.4	1645.2	1645.2	1646.2	1653.9	1653.0	1652.5
5°	1743.6	1753.9	1755.1	1766.0	1773.3	1770.8	1764.2
7.5°	1842.8	1861.9	1876.5	1884.7	1894.3	1900.2	1897.5
10°	1921.4	1949.4	1966.4	1977.9	1991.9	2002.2	1998.5
12.5°	1992.8	2026.1	2049.5	2069.2	2071.0	2084.2	2075.3
15°	2104.2	2139.4	2143.0	2157.6	2169.2	2167.9	2168.5
17.5°	2141.0	2152.3	2154.6	2154.9	2155.1	2150.8	2141.6
20°	2127.9	2123.6	2113.3	2105.4	2091.4	2089.6	2077.5
22.5°	2065.7	2052.2	2026.3	2009.2	1987.5	1981.8	1978.4
25°	1943.3	1913.5	1872.2	1832.8	1821.9	1800.6	1806.7
27.5°	1775.4	1729.0	1684.3	1652.3	1623.3	1591.4	1600.5
30°	1657.3	1605.1	1542.0	1493.4	1462.4	1432.1	1426.6
32.5°	1516.5	1440.0	1369.6	1326.8	1279.4	1260.2	1239.2
35°	1273.7	1199.0	1129.2	1069.1	1034.5	1007.7	983.5
37.5°	1055.3	969.3	912.9	864.3	839.2	823.9	827.8
40°	919.7	844.5	803.2	766.1	743.1	732.1	734.6
42.5°	810.0	753.6	719.6	694.3	678.0	671.9	670.5
45°	685.4	653.9	625.9	611.3	603.5	596.8	592.6
47.5°	600.4	574.6	558.9	550.2	543.4	536.5	536.4
50°	549.4	532.4	521.5	512.4	506.9	502.1	506.3
52.5°	510.6	495.0	484.1	475.9	473.9	469.5	469.4
55°	452.9	440.8	432.8	425.6	421.9	419.5	416.5
57.5°	400.4	388.9	381.6	377.0	370.1	367.7	366.7
60°	363.1	353.9	346.7	340.6	337.5	332.7	332.7
62.5°	328.5	319.5	312.7	308.0	303.1	301.1	301.6
65°	278.7	271.4	264.7	259.8	258.6	255.0	256.2
67.5°	232.7	227.9	220.9	218.2	215.9	214.0	212.5
70°	202.2	197.3	193.7	190.0	188.2	188.2	188.2
72.5°	176.4	170.6	168.4	163.8	164.9	163.0	161.0
75°	136.6	132.9	131.1	129.3	126.3	126.3	126.3
77.5°	100.5	99.4	97.3	95.3	94.6	94.0	94.2
80°	77.7	77.1	75.9	75.9	74.7	74.1	72.9
82.5°	59.7	58.1	57.4	57.0	56.7	56.6	56.3
85°	34.0	32.8	32.8	33.4	32.2	32.2	32.8
87.5°	14.7	14.7	14.3	14.3	14.9	14.4	14.4
90°	7.9	8.2	8.6	8.7	8.9	9.0	9.1
92.5°	8.5	8.6	8.8	8.9	9.0	9.0	9.1
95°	14.3	14.7	14.9	14.8	14.7	14.7	14.6
97.5°	18.6	18.9	19.1	19.2	19.3	19.3	19.4
100°	21.1	21.7	22.1	22.3	22.4	22.5	22.7
102.5°	22.2	23.0	23.4	23.7	23.9	24.1	24.3
105°	23.1	24.0	24.6	24.8	25.1	25.4	25.7
107.5°	26.4	25.5	25.3	25.6	25.9	26.1	26.5
110°	36.7	29.2	25.5	25.8	26.1	26.5	26.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.1	39.7	26.1	26.3	26.5	26.8	27.0
115°	104.4	69.6	49.4	44.0	38.6	33.2	27.7
117.5°	206.1	197.6	184.6	166.8	148.9	131.2	113.4
120°	250.9	251.8	247.2	237.0	226.9	216.7	206.5
122.5°	265.8	266.3	265.6	263.6	261.7	259.7	257.7
125°	287.7	288.2	288.6	288.8	289.1	289.3	289.5
127.5°	308.2	309.0	309.3	309.4	309.4	309.5	309.5
130°	321.1	321.9	322.3	322.3	322.2	322.1	322.0
132.5°	333.4	334.1	334.5	334.4	334.3	334.3	334.2
135°	351.3	352.1	352.4	352.3	352.1	352.0	351.8
137.5°	367.9	368.6	368.8	368.6	368.4	368.1	367.8
140°	378.6	379.2	379.4	379.0	378.6	378.3	377.9
142.5°	388.4	389.0	389.1	388.7	388.4	388.0	387.6
145°	402.1	402.7	402.7	402.3	402.0	401.6	401.2
147.5°	414.1	414.5	414.5	414.2	413.8	413.5	413.2
150°	421.5	422.0	422.1	421.7	421.3	420.9	420.6
152.5°	428.3	428.8	428.7	428.3	427.8	427.2	426.7
155°	437.4	437.9	437.8	437.2	436.7	436.0	435.5
157.5°	445.2	445.8	445.7	445.1	444.5	443.9	443.4
160°	449.6	450.1	450.0	449.6	449.0	448.5	448.0
162.5°	453.9	454.4	454.3	453.7	453.0	452.4	451.8
165°	459.0	459.5	459.5	459.0	458.5	458.0	457.4
167.5°	463.3	463.8	463.7	463.0	462.4	461.7	461.1
170°	465.5	466.0	465.9	465.2	464.5	463.9	463.2
172.5°	467.1	467.6	467.5	466.8	466.2	465.5	464.9
175°	468.8	469.4	469.3	468.5	467.8	467.0	466.3
177.5°	468.9	469.4	469.3	468.7	468.2	467.6	467.1
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9

(END OF REPORT)