

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: P331431-930

Luminaire Tested: **S122DIP-S1005D530U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331431-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D530U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5271.3 lumens
Efficiency: N/A
Efficacy: 95.7 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

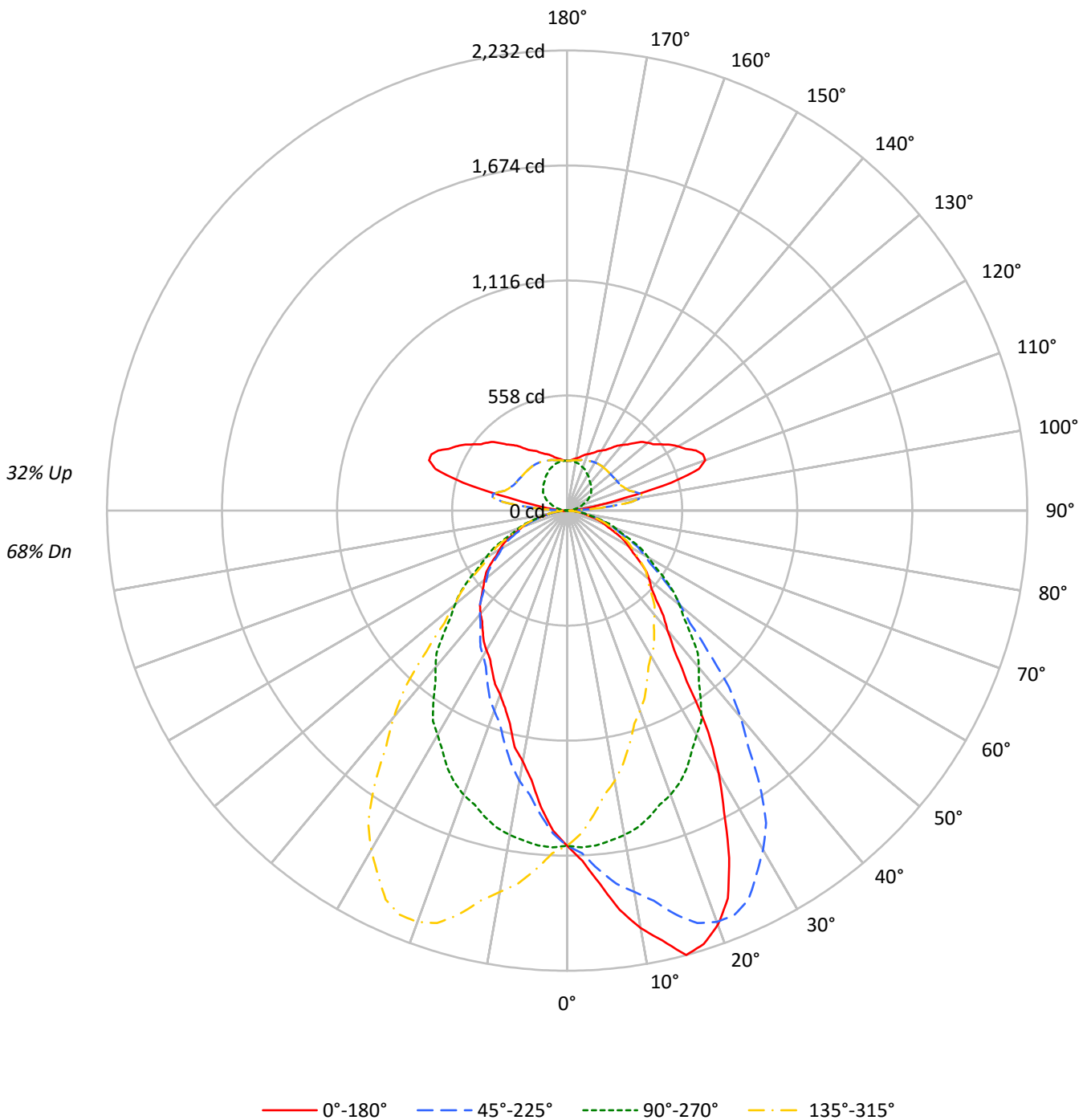
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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	76	88	82	77	72	73	69	66	66	62	60	58	56	54	50
3	86	77	70	64	81	73	66	61	65	60	56	59	55	51	52	49	47	43
4	79	68	61	55	75	65	58	53	59	53	49	53	48	45	47	44	41	38
5	73	61	53	47	69	59	51	46	53	47	42	48	43	39	43	39	36	33
6	68	56	47	42	64	53	46	40	48	42	37	43	38	35	39	35	32	30
7	63	50	43	37	59	48	41	36	44	38	33	40	35	31	36	32	29	26
8	58	46	38	33	55	44	37	32	40	34	30	37	32	28	33	29	26	24
9	55	42	35	30	52	41	34	29	37	31	27	34	29	25	31	27	24	22
10	51	39	32	27	48	37	31	26	34	29	25	31	27	23	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	2.9
10°-20°	450.1	8.5
20°-30°	653.3	12.4
30°-40°	689.3	13.1
40°-50°	610.4	11.6
50°-60°	487.1	9.2
60°-70°	331.1	6.3
70°-80°	169.7	3.2
80°-90°	43.1	0.8
90°-100°	96.7	1.8
100°-110°	328.1	6.2
110°-120°	348.5	6.6
120°-130°	286.9	5.4
130°-140°	230.4	4.4
140°-150°	174.1	3.3
150°-160°	122.4	2.3
160°-170°	72.0	1.4
170°-180°	23.4	0.4
0°-30°	1258.2	23.9
0°-40°	1947.5	36.9
0°-60°	3045.0	57.8
0°-90°	3588.9	68.1
90°-120°	773.2	14.7
90°-150°	1464.6	27.8
90°-180°	1682.0	31.9
0°-180°	5271.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	37
90°	15	0	15	0	15	10
95°	53	16	53	16	53	69
105°	524	57	524	57	524	507
115°	690	100	690	100	690	675
125°	559	140	559	140	559	505
135°	464	164	464	164	464	360
145°	370	187	370	187	370	235
155°	311	212	311	212	311	145
165°	273	232	273	232	273	78
175°	246	241	246	241	246	24
180°	242	242	242	242	242	



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	16.1	16.1	16.6	16.1	16.1	16.5	16.3	16.0	16.6	17.1	17.5
90°	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8	15.3	15.8	15.3
92.5°	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5	51.0	60.4	59.6
95°	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8	159.5	182.3	161.3
97.5°	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3	326.4	311.1	234.3
100°	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5	434.2	367.3	252.9
102.5°	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4	474.4	369.2	245.9
105°	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9	468.2	344.5	232.0
107.5°	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9	427.4	318.1	225.1
110°	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9	401.7	305.5	223.6



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3	383.8	297.3	224.0
115°	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5	361.7	288.3	226.0
117.5°	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9	347.8	283.9	229.3
120°	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3	340.4	281.3	231.5
122.5°	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3	334.0	279.8	234.2
125°	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7	325.0	277.1	238.1
127.5°	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3	316.7	275.6	242.1
130°	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0	311.0	274.8	245.0
132.5°	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1	306.6	274.4	248.0
135°	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6	300.4	273.9	251.5
137.5°	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7	296.0	273.8	254.7
140°	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3	293.4	273.4	256.2
142.5°	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1	290.8	273.4	257.3
145°	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7	287.3	272.5	258.5
147.5°	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1	283.8	270.8	258.9
150°	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0	280.9	269.7	258.5
152.5°	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9	278.3	267.8	257.8
155°	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3	273.4	264.6	256.7
157.5°	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7	268.8	261.2	254.5
160°	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5	265.5	259.0	253.4
162.5°	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4	262.5	257.1	252.3
165°	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3	257.6	253.4	250.1
167.5°	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4	252.7	250.1	248.0
170°	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5	250.1	248.3	246.9
172.5°	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2	247.5	246.1	245.4
175°	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5	244.1	243.6	243.2
177.5°	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9	242.1	241.7	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	17.5	16.9	16.4	17.1	15.4	15.2	12.9	11.1	10.8	10.8	9.9
90°	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5	1.9	3.8	4.6
92.5°	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7	8.2	11.5	13.6
95°	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3	18.1	22.7	27.0
97.5°	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5	29.0	33.9	40.3
100°	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8	37.2	41.4	48.8
102.5°	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4	45.4	49.6	57.0
105°	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7	58.6	61.8	68.8
107.5°	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1	71.6	74.8	81.2
110°	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0	80.9	83.7	89.8



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2	89.1	92.2	97.9
115°	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0	102.3	105.1	110.6
117.5°	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2	115.0	117.8	122.8
120°	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3	123.2	126.0	130.2
122.5°	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1	130.7	133.5	138.0
125°	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5	140.9	143.7	149.3
127.5°	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7	149.5	153.4	159.6
130°	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5	154.3	159.0	165.5
132.5°	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9	159.2	164.2	171.1
135°	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6	165.5	171.1	178.1
137.5°	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0	172.2	177.8	185.2
140°	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8	176.7	182.3	189.7
142.5°	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7	181.2	186.4	193.8
145°	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9	188.7	193.4	200.4
147.5°	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7	196.1	200.6	207.0
150°	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9	201.3	205.0	211.1
152.5°	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1	205.8	209.5	214.8
155°	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5	213.0	215.7	220.9
157.5°	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6	219.1	221.4	225.8
160°	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7	223.1	225.0	228.8
162.5°	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8	226.5	228.4	231.4
165°	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5	231.1	232.0	234.8
167.5°	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5	234.9	235.7	237.5
170°	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1	237.1	237.6	239.0
172.5°	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5	239.0	238.7	240.1
175°	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3	240.8	240.4	241.3
177.5°	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1	241.4	241.0	241.7
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	9.6	9.4	9.4	10.0	10.0	9.6	9.0	9.0	8.8	8.0	8.1
90°	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8	13.9	14.8	15.3
92.5°	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5	34.8	30.9	28.0
95°	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8	93.4	73.9	63.7
97.5°	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3	232.6	182.3	148.7
100°	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5	366.9	303.1	246.9
102.5°	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4	503.4	456.8	397.1
105°	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9	617.4	623.5	608.1
107.5°	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9	609.1	657.5	680.0
110°	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9	583.0	642.5	680.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3	552.2	615.8	659.5
115°	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5	510.1	571.0	618.9
117.5°	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9	475.8	531.1	576.0
120°	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3	458.0	507.3	549.6
122.5°	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3	443.1	489.8	528.0
125°	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7	423.5	464.5	499.4
127.5°	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3	404.6	443.2	475.4
130°	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0	392.0	428.7	459.3
132.5°	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1	380.1	413.8	442.6
135°	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6	361.3	392.0	418.0
137.5°	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7	346.3	370.6	393.4
140°	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3	336.6	358.0	378.5
142.5°	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1	328.1	346.5	363.6
145°	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7	317.1	331.5	345.0
147.5°	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1	308.2	319.4	329.3
150°	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0	302.2	312.0	320.3
152.5°	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9	297.4	305.7	312.9
155°	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3	289.7	296.6	301.7
157.5°	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7	281.8	287.7	291.7
160°	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5	276.6	281.8	285.0
162.5°	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4	271.8	276.2	278.7
165°	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3	264.6	267.8	269.7
167.5°	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4	258.0	260.2	261.9
170°	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5	253.9	255.8	256.7
172.5°	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2	250.1	251.6	252.2
175°	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5	246.0	246.5	246.9
177.5°	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9	242.9	243.3	243.3
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	8.1	7.6	7.6	7.1	7.6	7.6	8.1	8.1	8.0	8.8	9.0
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8
92.5°	27.6	26.2	26.5	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5
95°	57.6	54.0	52.5	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8
97.5°	126.5	115.0	108.3	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3
100°	208.3	188.3	174.8	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5
102.5°	355.2	321.1	304.3	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4
105°	579.4	550.5	530.5	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9
107.5°	683.5	682.0	678.0	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9
110°	700.7	709.6	713.7	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	687.3	702.1	710.0	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3
115°	651.8	673.3	685.3	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5
117.5°	609.7	632.3	645.0	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9
120°	582.1	604.0	617.4	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3
122.5°	557.2	578.7	590.7	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3
125°	526.4	544.0	555.6	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7
127.5°	498.9	515.4	525.5	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3
130°	482.2	498.0	507.3	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0
132.5°	465.0	480.9	489.4	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1
135°	438.0	453.3	461.7	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6
137.5°	411.6	424.8	432.1	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7
140°	393.4	405.4	412.4	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3
142.5°	377.7	388.7	394.9	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1
145°	356.1	364.0	368.7	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7
147.5°	338.5	344.8	348.0	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1
150°	327.3	332.9	335.7	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0
152.5°	318.4	323.3	325.3	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9
155°	306.9	310.1	312.0	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3
157.5°	295.3	298.1	298.9	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7
160°	288.3	290.6	291.1	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5
162.5°	281.9	283.6	284.0	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4
165°	271.5	273.4	273.4	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3
167.5°	262.7	263.7	263.7	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4
170°	257.1	258.5	258.0	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5
172.5°	252.7	253.3	252.8	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2
175°	246.9	247.4	246.9	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5
177.5°	243.3	243.3	242.9	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	9.0	9.6	10.0	10.0	9.4	9.4	9.6	9.9	10.8	10.8	11.1
90°	15.3	15.8	15.3	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5
92.5°	51.0	60.4	59.6	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7
95°	159.5	182.3	161.3	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3
97.5°	326.4	311.1	234.3	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5
100°	434.2	367.3	252.9	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8
102.5°	474.4	369.2	245.9	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4
105°	468.2	344.5	232.0	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7
107.5°	427.4	318.1	225.1	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1
110°	401.7	305.5	223.6	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	383.8	297.3	224.0	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2
115°	361.7	288.3	226.0	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0
117.5°	347.8	283.9	229.3	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2
120°	340.4	281.3	231.5	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3
122.5°	334.0	279.8	234.2	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1
125°	325.0	277.1	238.1	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5
127.5°	316.7	275.6	242.1	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7
130°	311.0	274.8	245.0	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5
132.5°	306.6	274.4	248.0	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9
135°	300.4	273.9	251.5	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6
137.5°	296.0	273.8	254.7	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0
140°	293.4	273.4	256.2	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8
142.5°	290.8	273.4	257.3	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7
145°	287.3	272.5	258.5	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9
147.5°	283.8	270.8	258.9	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7
150°	280.9	269.7	258.5	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9
152.5°	278.3	267.8	257.8	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1
155°	273.4	264.6	256.7	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5
157.5°	268.8	261.2	254.5	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6
160°	265.5	259.0	253.4	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7
162.5°	262.5	257.1	252.3	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8
165°	257.6	253.4	250.1	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5
167.5°	252.7	250.1	248.0	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5
170°	250.1	248.3	246.9	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1
172.5°	247.5	246.1	245.4	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5
175°	244.1	243.6	243.2	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3
177.5°	242.1	241.7	242.1	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	12.9	15.2	15.4	17.1	16.4	16.9	17.5	17.5	17.1	16.6	16.0
90°	1.9	3.8	4.6	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8
92.5°	8.2	11.5	13.6	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5
95°	18.1	22.7	27.0	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8
97.5°	29.0	33.9	40.3	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3
100°	37.2	41.4	48.8	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5
102.5°	45.4	49.6	57.0	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4
105°	58.6	61.8	68.8	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9
107.5°	71.6	74.8	81.2	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9
110°	80.9	83.7	89.8	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.1	92.2	97.9	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3
115°	102.3	105.1	110.6	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5
117.5°	115.0	117.8	122.8	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9
120°	123.2	126.0	130.2	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3
122.5°	130.7	133.5	138.0	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3
125°	140.9	143.7	149.3	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7
127.5°	149.5	153.4	159.6	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3
130°	154.3	159.0	165.5	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0
132.5°	159.2	164.2	171.1	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1
135°	165.5	171.1	178.1	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6
137.5°	172.2	177.8	185.2	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7
140°	176.7	182.3	189.7	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3
142.5°	181.2	186.4	193.8	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1
145°	188.7	193.4	200.4	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7
147.5°	196.1	200.6	207.0	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1
150°	201.3	205.0	211.1	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0
152.5°	205.8	209.5	214.8	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9
155°	213.0	215.7	220.9	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3
157.5°	219.1	221.4	225.8	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7
160°	223.1	225.0	228.8	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5
162.5°	226.5	228.4	231.4	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4
165°	231.1	232.0	234.8	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3
167.5°	234.9	235.7	237.5	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4
170°	237.1	237.6	239.0	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5
172.5°	239.0	238.7	240.1	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2
175°	240.8	240.4	241.3	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5
177.5°	241.4	241.0	241.7	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	16.3	16.5	16.1	16.1	16.6	16.1	16.1
90°	13.9	14.8	15.3	15.3	15.3	15.3	15.3
92.5°	34.8	30.9	28.0	27.6	26.2	26.5	25.8
95°	93.4	73.9	63.7	57.6	54.0	52.5	53.0
97.5°	232.6	182.3	148.7	126.5	115.0	108.3	104.4
100°	366.9	303.1	246.9	208.3	188.3	174.8	166.5
102.5°	503.4	456.8	397.1	355.2	321.1	304.3	292.9
105°	617.4	623.5	608.1	579.4	550.5	530.5	524.0
107.5°	609.1	657.5	680.0	683.5	682.0	678.0	669.4
110°	583.0	642.5	680.7	700.7	709.6	713.7	713.2



TEST NUMBER: P331431-930

CATALOG NUMBER: S122DIP-S1005D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	552.2	615.8	659.5	687.3	702.1	710.0	712.5
115°	510.1	571.0	618.9	651.8	673.3	685.3	689.5
117.5°	475.8	531.1	576.0	609.7	632.3	645.0	648.5
120°	458.0	507.3	549.6	582.1	604.0	617.4	622.1
122.5°	443.1	489.8	528.0	557.2	578.7	590.7	594.6
125°	423.5	464.5	499.4	526.4	544.0	555.6	559.4
127.5°	404.6	443.2	475.4	498.9	515.4	525.5	528.5
130°	392.0	428.7	459.3	482.2	498.0	507.3	510.9
132.5°	380.1	413.8	442.6	465.0	480.9	489.4	492.8
135°	361.3	392.0	418.0	438.0	453.3	461.7	463.6
137.5°	346.3	370.6	393.4	411.6	424.8	432.1	434.9
140°	336.6	358.0	378.5	393.4	405.4	412.4	415.2
142.5°	328.1	346.5	363.6	377.7	388.7	394.9	395.5
145°	317.1	331.5	345.0	356.1	364.0	368.7	370.1
147.5°	308.2	319.4	329.3	338.5	344.8	348.0	348.8
150°	302.2	312.0	320.3	327.3	332.9	335.7	336.1
152.5°	297.4	305.7	312.9	318.4	323.3	325.3	325.4
155°	289.7	296.6	301.7	306.9	310.1	312.0	311.0
157.5°	281.8	287.7	291.7	295.3	298.1	298.9	298.9
160°	276.6	281.8	285.0	288.3	290.6	291.1	291.1
162.5°	271.8	276.2	278.7	281.9	283.6	284.0	283.6
165°	264.6	267.8	269.7	271.5	273.4	273.4	273.0
167.5°	258.0	260.2	261.9	262.7	263.7	263.7	263.1
170°	253.9	255.8	256.7	257.1	258.5	258.0	257.1
172.5°	250.1	251.6	252.2	252.7	253.3	252.8	252.3
175°	246.0	246.5	246.9	246.9	247.4	246.9	246.0
177.5°	242.9	243.3	243.3	243.3	243.3	242.9	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7

(END OF REPORT)