

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: P331431-927

Luminaire Tested: **S122DIP-S1005D530U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331431-927  
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-S1005D530U927-4F0-1E-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: 5121.9 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

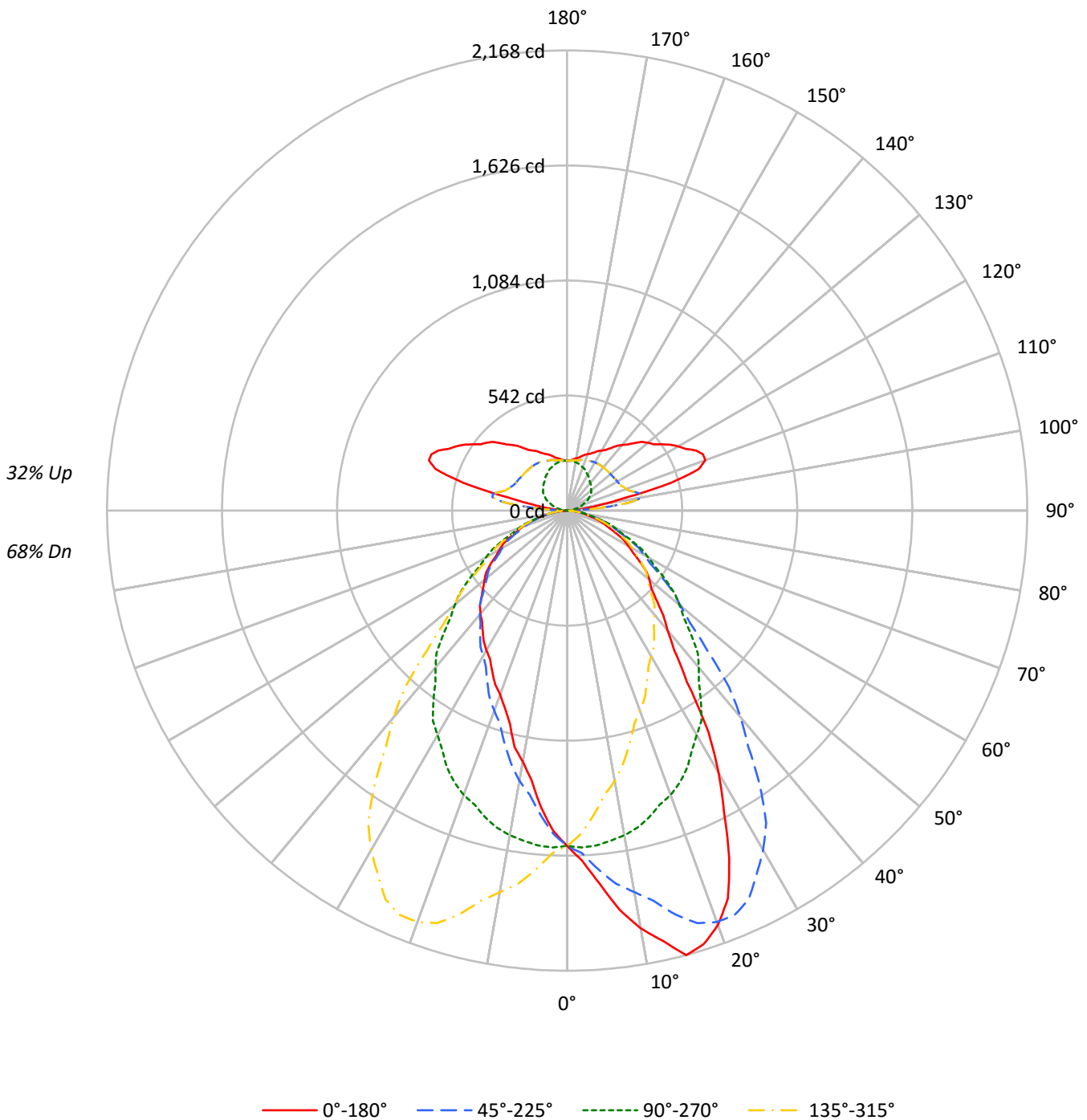
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	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	2.9
10°-20°	437.4	8.5
20°-30°	634.7	12.4
30°-40°	669.8	13.1
40°-50°	593.0	11.6
50°-60°	473.3	9.2
60°-70°	321.7	6.3
70°-80°	164.9	3.2
80°-90°	41.9	0.8
90°-100°	93.9	1.8
100°-110°	318.8	6.2
110°-120°	338.6	6.6
120°-130°	278.8	5.4
130°-140°	223.9	4.4
140°-150°	169.2	3.3
150°-160°	118.9	2.3
160°-170°	70.0	1.4
170°-180°	22.8	0.4
0°-30°	1222.5	23.9
0°-40°	1892.3	36.9
0°-60°	2958.6	57.8
0°-90°	3487.1	68.1
90°-120°	751.3	14.7
90°-150°	1423.1	27.8
90°-180°	1635.0	31.9
0°-180°	5121.9	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°	15	0	15	0	15	10
95°	52	16	52	16	52	67
105°	509	55	509	55	509	493
115°	670	97	670	97	670	656
125°	544	136	544	136	544	491
135°	450	159	450	159	450	350
145°	360	182	360	182	360	228
155°	302	206	302	206	302	141
165°	265	225	265	225	265	76
175°	239	234	239	234	239	23
180°	235	235	235	235	235	



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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°	15.6	15.6	16.1	15.6	15.6	16.0	15.8	15.5	16.1	16.6	17.0
90°	14.9	14.9	14.9	14.9	14.9	14.4	13.5	14.4	14.9	15.4	14.9
92.5°	25.0	25.7	25.4	26.9	27.2	30.0	33.8	39.4	49.6	58.7	57.9
95°	51.5	51.0	52.4	56.0	61.9	71.9	90.8	118.4	155.0	177.1	156.8
97.5°	101.4	105.2	111.8	122.9	144.5	177.1	226.0	276.2	317.1	302.3	227.7
100°	161.8	169.8	183.0	202.4	239.9	294.5	356.5	412.5	421.9	356.9	245.7
102.5°	284.6	295.6	312.0	345.2	385.9	443.9	489.1	501.8	461.0	358.7	238.9
105°	509.1	515.5	534.9	562.9	590.9	605.9	599.9	548.9	455.0	334.8	225.5
107.5°	650.4	658.8	662.7	664.2	660.7	638.8	591.8	514.9	415.3	309.1	218.7
110°	693.0	693.5	689.4	680.8	661.4	624.3	566.5	485.7	390.3	296.8	217.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	692.3	689.8	682.1	667.8	640.8	598.3	536.5	458.9	373.0	288.8	217.7
115°	669.9	665.9	654.2	633.3	601.3	554.8	495.6	426.0	351.5	280.1	219.6
117.5°	630.1	626.7	614.3	592.4	559.7	516.0	462.3	401.2	337.9	275.8	222.8
120°	604.4	599.9	586.8	565.6	534.0	492.9	445.0	389.0	330.7	273.3	225.0
122.5°	577.7	573.9	562.3	541.4	513.0	475.9	430.6	379.2	324.6	271.9	227.5
125°	543.5	539.9	528.5	511.4	485.2	451.3	411.5	365.0	315.8	269.3	231.3
127.5°	513.5	510.6	500.8	484.7	461.9	430.6	393.2	351.0	307.7	267.8	235.2
130°	496.5	492.9	483.9	468.5	446.3	416.5	380.9	342.0	302.2	267.0	238.1
132.5°	478.8	475.5	467.2	451.9	430.1	402.1	369.3	333.4	297.9	266.6	241.0
135°	450.4	448.6	440.5	425.6	406.2	380.9	351.0	321.2	291.8	266.1	244.4
137.5°	422.6	419.9	412.7	399.9	382.2	360.1	336.5	311.6	287.6	266.0	247.5
140°	403.5	400.7	394.0	382.2	367.7	347.8	327.1	305.4	285.1	265.6	248.9
142.5°	384.3	383.7	377.7	367.0	353.3	336.7	318.8	300.3	282.6	265.6	250.0
145°	359.6	358.2	353.7	346.0	335.3	322.1	308.1	293.2	279.2	264.7	251.2
147.5°	338.9	338.1	335.0	328.9	320.0	310.4	299.4	287.7	275.8	263.1	251.5
150°	326.6	326.1	323.4	318.1	311.2	303.2	293.7	283.7	272.9	262.1	251.2
152.5°	316.2	316.1	314.1	309.3	304.0	297.0	289.0	279.7	270.4	260.2	250.5
155°	302.2	303.2	301.3	298.2	293.2	288.2	281.5	274.3	265.6	257.1	249.4
157.5°	290.4	290.4	289.6	286.9	283.4	279.6	273.9	267.8	261.2	253.8	247.3
160°	282.8	282.8	282.3	280.1	276.9	273.8	268.8	263.8	257.9	251.7	246.2
162.5°	275.6	275.9	275.5	273.9	270.8	268.4	264.1	259.8	255.1	249.9	245.1
165°	265.2	265.6	265.6	263.8	262.1	260.2	257.1	253.9	250.3	246.2	243.0
167.5°	255.6	256.2	256.3	255.2	254.4	252.8	250.6	248.2	245.6	243.0	241.0
170°	249.9	250.7	251.2	249.9	249.4	248.5	246.7	245.3	243.0	241.2	239.9
172.5°	245.1	245.7	246.1	245.5	245.0	244.5	243.0	242.1	240.5	239.1	238.4
175°	239.0	239.9	240.3	239.9	239.9	239.5	239.0	238.5	237.2	236.7	236.3
177.5°	235.3	236.0	236.4	236.4	236.4	236.4	236.0	236.0	235.3	234.9	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



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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°	17.0	16.4	15.9	16.6	15.0	14.8	12.5	10.8	10.5	10.5	9.7
90°	12.2	9.0	6.8	5.4	4.5	3.6	1.8	0.5	1.8	3.6	4.5
92.5°	45.1	30.7	20.5	16.2	13.2	11.2	7.9	5.5	7.9	11.2	13.2
95°	104.3	65.0	44.3	33.4	26.2	22.1	17.6	15.8	17.6	22.1	26.2
97.5°	140.6	85.9	59.7	47.5	39.1	33.0	28.2	25.7	28.2	33.0	39.1
100°	148.2	93.1	69.2	56.5	47.5	40.2	36.1	34.8	36.1	40.2	47.5
102.5°	148.5	99.6	77.4	64.8	55.4	48.2	44.1	43.1	44.1	48.2	55.4
105°	150.9	110.7	89.4	76.8	66.9	60.0	57.0	55.1	57.0	60.0	66.9
107.5°	157.1	122.1	101.5	88.7	78.9	72.6	69.6	68.1	69.6	72.6	78.9
110°	162.2	129.7	109.8	96.6	87.2	81.4	78.6	76.8	78.6	81.4	87.2





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	167.6	136.9	117.7	104.3	95.1	89.6	86.6	84.8	86.6	89.6	95.1
115°	175.7	148.2	128.7	116.5	107.5	102.1	99.4	97.1	99.4	102.1	107.5
117.5°	184.4	158.6	140.6	127.9	119.3	114.5	111.8	110.0	111.8	114.5	119.3
120°	190.2	165.8	148.2	135.5	126.5	122.4	119.7	117.9	119.7	122.4	126.5
122.5°	195.3	172.7	156.1	143.1	134.1	129.7	127.0	125.5	127.0	129.7	134.1
125°	203.3	183.0	166.7	154.1	145.0	139.6	136.9	135.5	136.9	139.6	145.0
127.5°	210.8	192.6	176.7	163.7	155.0	149.1	145.3	143.5	145.3	149.1	155.0
130°	215.5	198.4	182.5	169.8	160.8	154.5	150.0	148.2	150.0	154.5	160.8
132.5°	220.2	203.4	188.3	175.6	166.3	159.5	154.7	152.5	154.7	159.5	166.3
135°	226.3	210.6	196.1	183.4	173.0	166.3	160.8	159.0	160.8	166.3	173.0
137.5°	231.0	216.3	202.0	190.3	180.0	172.8	167.3	165.2	167.3	172.8	180.0
140°	233.5	219.6	206.0	194.2	184.3	177.1	171.7	169.8	171.7	177.1	184.3
142.5°	235.8	222.1	208.9	197.9	188.3	181.1	176.0	174.6	176.0	181.1	188.3
145°	238.5	225.9	213.7	203.7	194.7	187.9	183.4	181.6	183.4	187.9	194.7
147.5°	240.1	228.9	217.5	208.7	201.1	194.9	190.5	189.2	190.5	194.9	201.1
150°	240.8	230.4	220.0	211.9	205.1	199.2	195.6	194.2	195.6	199.2	205.1
152.5°	241.1	231.9	222.5	215.2	208.7	203.6	199.9	199.3	199.9	203.6	208.7
155°	241.7	234.0	226.3	219.6	214.6	209.6	206.9	206.4	206.9	209.6	214.6
157.5°	241.7	235.5	229.0	223.4	219.4	215.1	212.9	212.4	212.9	215.1	219.4
160°	241.7	236.3	230.8	225.9	222.3	218.6	216.8	216.4	216.8	218.6	222.3
162.5°	241.3	236.6	232.0	228.1	224.8	221.9	220.1	220.4	220.1	221.9	224.8
165°	240.3	237.2	233.1	230.4	228.1	225.5	224.5	225.0	224.5	225.5	228.1
167.5°	239.7	237.1	234.1	232.4	230.8	229.0	228.2	228.8	228.2	229.0	230.8
170°	239.0	236.7	234.5	233.1	232.2	230.8	230.4	231.3	230.4	230.8	232.2
172.5°	237.9	236.4	234.8	233.9	233.3	232.0	232.2	232.7	232.2	232.0	233.3
175°	236.7	235.8	234.9	234.5	234.5	233.5	234.0	234.5	234.0	233.5	234.5
177.5°	236.0	235.3	234.9	234.9	234.9	234.2	234.6	235.3	234.6	234.2	234.9
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331431-927

CATALOG NUMBER: S122DIP-S1005D530U927-4F0-1E-UDD-A4

**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°	9.3	9.1	9.1	9.7	9.7	9.3	8.8	8.7	8.6	7.8	7.8
90°	5.4	6.8	9.0	12.2	14.9	15.4	14.9	14.4	13.5	14.4	14.9
92.5°	16.2	20.5	30.7	45.1	57.9	58.7	49.6	39.4	33.8	30.0	27.2
95°	33.4	44.3	65.0	104.3	156.8	177.1	155.0	118.4	90.8	71.9	61.9
97.5°	47.5	59.7	85.9	140.6	227.7	302.3	317.1	276.2	226.0	177.1	144.5
100°	56.5	69.2	93.1	148.2	245.7	356.9	421.9	412.5	356.5	294.5	239.9
102.5°	64.8	77.4	99.6	148.5	238.9	358.7	461.0	501.8	489.1	443.9	385.9
105°	76.8	89.4	110.7	150.9	225.5	334.8	455.0	548.9	599.9	605.9	590.9
107.5°	88.7	101.5	122.1	157.1	218.7	309.1	415.3	514.9	591.8	638.8	660.7
110°	96.6	109.8	129.7	162.2	217.3	296.8	390.3	485.7	566.5	624.3	661.4



TEST NUMBER: P331431-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	104.3	117.7	136.9	167.6	217.7	288.8	373.0	458.9	536.5	598.3	640.8
115°	116.5	128.7	148.2	175.7	219.6	280.1	351.5	426.0	495.6	554.8	601.3
117.5°	127.9	140.6	158.6	184.4	222.8	275.8	337.9	401.2	462.3	516.0	559.7
120°	135.5	148.2	165.8	190.2	225.0	273.3	330.7	389.0	445.0	492.9	534.0
122.5°	143.1	156.1	172.7	195.3	227.5	271.9	324.6	379.2	430.6	475.9	513.0
125°	154.1	166.7	183.0	203.3	231.3	269.3	315.8	365.0	411.5	451.3	485.2
127.5°	163.7	176.7	192.6	210.8	235.2	267.8	307.7	351.0	393.2	430.6	461.9
130°	169.8	182.5	198.4	215.5	238.1	267.0	302.2	342.0	380.9	416.5	446.3
132.5°	175.6	188.3	203.4	220.2	241.0	266.6	297.9	333.4	369.3	402.1	430.1
135°	183.4	196.1	210.6	226.3	244.4	266.1	291.8	321.2	351.0	380.9	406.2
137.5°	190.3	202.0	216.3	231.0	247.5	266.0	287.6	311.6	336.5	360.1	382.2
140°	194.2	206.0	219.6	233.5	248.9	265.6	285.1	305.4	327.1	347.8	367.7
142.5°	197.9	208.9	222.1	235.8	250.0	265.6	282.6	300.3	318.8	336.7	353.3
145°	203.7	213.7	225.9	238.5	251.2	264.7	279.2	293.2	308.1	322.1	335.3
147.5°	208.7	217.5	228.9	240.1	251.5	263.1	275.8	287.7	299.4	310.4	320.0
150°	211.9	220.0	230.4	240.8	251.2	262.1	272.9	283.7	293.7	303.2	311.2
152.5°	215.2	222.5	231.9	241.1	250.5	260.2	270.4	279.7	289.0	297.0	304.0
155°	219.6	226.3	234.0	241.7	249.4	257.1	265.6	274.3	281.5	288.2	293.2
157.5°	223.4	229.0	235.5	241.7	247.3	253.8	261.2	267.8	273.9	279.6	283.4
160°	225.9	230.8	236.3	241.7	246.2	251.7	257.9	263.8	268.8	273.8	276.9
162.5°	228.1	232.0	236.6	241.3	245.1	249.9	255.1	259.8	264.1	268.4	270.8
165°	230.4	233.1	237.2	240.3	243.0	246.2	250.3	253.9	257.1	260.2	262.1
167.5°	232.4	234.1	237.1	239.7	241.0	243.0	245.6	248.2	250.6	252.8	254.4
170°	233.1	234.5	236.7	239.0	239.9	241.2	243.0	245.3	246.7	248.5	249.4
172.5°	233.9	234.8	236.4	237.9	238.4	239.1	240.5	242.1	243.0	244.5	245.0
175°	234.5	234.9	235.8	236.7	236.3	236.7	237.2	238.5	239.0	239.5	239.9
177.5°	234.9	234.9	235.3	236.0	235.3	234.9	235.3	236.0	236.0	236.4	236.4
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331431-927

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**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°	7.8	7.4	7.4	6.9	7.4	7.4	7.8	7.8	7.8	8.6	8.7
90°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.4	13.5	14.4
92.5°	26.9	25.4	25.7	25.0	25.7	25.4	26.9	27.2	30.0	33.8	39.4
95°	56.0	52.4	51.0	51.5	51.0	52.4	56.0	61.9	71.9	90.8	118.4
97.5°	122.9	111.8	105.2	101.4	105.2	111.8	122.9	144.5	177.1	226.0	276.2
100°	202.4	183.0	169.8	161.8	169.8	183.0	202.4	239.9	294.5	356.5	412.5
102.5°	345.2	312.0	295.6	284.6	295.6	312.0	345.2	385.9	443.9	489.1	501.8
105°	562.9	534.9	515.5	509.1	515.5	534.9	562.9	590.9	605.9	599.9	548.9
107.5°	664.2	662.7	658.8	650.4	658.8	662.7	664.2	660.7	638.8	591.8	514.9
110°	680.8	689.4	693.5	693.0	693.5	689.4	680.8	661.4	624.3	566.5	485.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	667.8	682.1	689.8	692.3	689.8	682.1	667.8	640.8	598.3	536.5	458.9
115°	633.3	654.2	665.9	669.9	665.9	654.2	633.3	601.3	554.8	495.6	426.0
117.5°	592.4	614.3	626.7	630.1	626.7	614.3	592.4	559.7	516.0	462.3	401.2
120°	565.6	586.8	599.9	604.4	599.9	586.8	565.6	534.0	492.9	445.0	389.0
122.5°	541.4	562.3	573.9	577.7	573.9	562.3	541.4	513.0	475.9	430.6	379.2
125°	511.4	528.5	539.9	543.5	539.9	528.5	511.4	485.2	451.3	411.5	365.0
127.5°	484.7	500.8	510.6	513.5	510.6	500.8	484.7	461.9	430.6	393.2	351.0
130°	468.5	483.9	492.9	496.5	492.9	483.9	468.5	446.3	416.5	380.9	342.0
132.5°	451.9	467.2	475.5	478.8	475.5	467.2	451.9	430.1	402.1	369.3	333.4
135°	425.6	440.5	448.6	450.4	448.6	440.5	425.6	406.2	380.9	351.0	321.2
137.5°	399.9	412.7	419.9	422.6	419.9	412.7	399.9	382.2	360.1	336.5	311.6
140°	382.2	394.0	400.7	403.5	400.7	394.0	382.2	367.7	347.8	327.1	305.4
142.5°	367.0	377.7	383.7	384.3	383.7	377.7	367.0	353.3	336.7	318.8	300.3
145°	346.0	353.7	358.2	359.6	358.2	353.7	346.0	335.3	322.1	308.1	293.2
147.5°	328.9	335.0	338.1	338.9	338.1	335.0	328.9	320.0	310.4	299.4	287.7
150°	318.1	323.4	326.1	326.6	326.1	323.4	318.1	311.2	303.2	293.7	283.7
152.5°	309.3	314.1	316.1	316.2	316.1	314.1	309.3	304.0	297.0	289.0	279.7
155°	298.2	301.3	303.2	302.2	303.2	301.3	298.2	293.2	288.2	281.5	274.3
157.5°	286.9	289.6	290.4	290.4	290.4	289.6	286.9	283.4	279.6	273.9	267.8
160°	280.1	282.3	282.8	282.8	282.8	282.3	280.1	276.9	273.8	268.8	263.8
162.5°	273.9	275.5	275.9	275.6	275.9	275.5	273.9	270.8	268.4	264.1	259.8
165°	263.8	265.6	265.6	265.2	265.6	265.6	263.8	262.1	260.2	257.1	253.9
167.5°	255.2	256.3	256.2	255.6	256.2	256.3	255.2	254.4	252.8	250.6	248.2
170°	249.9	251.2	250.7	249.9	250.7	251.2	249.9	249.4	248.5	246.7	245.3
172.5°	245.5	246.1	245.7	245.1	245.7	246.1	245.5	245.0	244.5	243.0	242.1
175°	239.9	240.3	239.9	239.0	239.9	240.3	239.9	239.9	239.5	239.0	238.5
177.5°	236.4	236.4	236.0	235.3	236.0	236.4	236.4	236.4	236.4	236.0	236.0
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



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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°	8.8	9.3	9.7	9.7	9.1	9.1	9.3	9.7	10.5	10.5	10.8
90°	14.9	15.4	14.9	12.2	9.0	6.8	5.4	4.5	3.6	1.8	0.5
92.5°	49.6	58.7	57.9	45.1	30.7	20.5	16.2	13.2	11.2	7.9	5.5
95°	155.0	177.1	156.8	104.3	65.0	44.3	33.4	26.2	22.1	17.6	15.8
97.5°	317.1	302.3	227.7	140.6	85.9	59.7	47.5	39.1	33.0	28.2	25.7
100°	421.9	356.9	245.7	148.2	93.1	69.2	56.5	47.5	40.2	36.1	34.8
102.5°	461.0	358.7	238.9	148.5	99.6	77.4	64.8	55.4	48.2	44.1	43.1
105°	455.0	334.8	225.5	150.9	110.7	89.4	76.8	66.9	60.0	57.0	55.1
107.5°	415.3	309.1	218.7	157.1	122.1	101.5	88.7	78.9	72.6	69.6	68.1
110°	390.3	296.8	217.3	162.2	129.7	109.8	96.6	87.2	81.4	78.6	76.8



TEST NUMBER: P331431-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	373.0	288.8	217.7	167.6	136.9	117.7	104.3	95.1	89.6	86.6	84.8
115°	351.5	280.1	219.6	175.7	148.2	128.7	116.5	107.5	102.1	99.4	97.1
117.5°	337.9	275.8	222.8	184.4	158.6	140.6	127.9	119.3	114.5	111.8	110.0
120°	330.7	273.3	225.0	190.2	165.8	148.2	135.5	126.5	122.4	119.7	117.9
122.5°	324.6	271.9	227.5	195.3	172.7	156.1	143.1	134.1	129.7	127.0	125.5
125°	315.8	269.3	231.3	203.3	183.0	166.7	154.1	145.0	139.6	136.9	135.5
127.5°	307.7	267.8	235.2	210.8	192.6	176.7	163.7	155.0	149.1	145.3	143.5
130°	302.2	267.0	238.1	215.5	198.4	182.5	169.8	160.8	154.5	150.0	148.2
132.5°	297.9	266.6	241.0	220.2	203.4	188.3	175.6	166.3	159.5	154.7	152.5
135°	291.8	266.1	244.4	226.3	210.6	196.1	183.4	173.0	166.3	160.8	159.0
137.5°	287.6	266.0	247.5	231.0	216.3	202.0	190.3	180.0	172.8	167.3	165.2
140°	285.1	265.6	248.9	233.5	219.6	206.0	194.2	184.3	177.1	171.7	169.8
142.5°	282.6	265.6	250.0	235.8	222.1	208.9	197.9	188.3	181.1	176.0	174.6
145°	279.2	264.7	251.2	238.5	225.9	213.7	203.7	194.7	187.9	183.4	181.6
147.5°	275.8	263.1	251.5	240.1	228.9	217.5	208.7	201.1	194.9	190.5	189.2
150°	272.9	262.1	251.2	240.8	230.4	220.0	211.9	205.1	199.2	195.6	194.2
152.5°	270.4	260.2	250.5	241.1	231.9	222.5	215.2	208.7	203.6	199.9	199.3
155°	265.6	257.1	249.4	241.7	234.0	226.3	219.6	214.6	209.6	206.9	206.4
157.5°	261.2	253.8	247.3	241.7	235.5	229.0	223.4	219.4	215.1	212.9	212.4
160°	257.9	251.7	246.2	241.7	236.3	230.8	225.9	222.3	218.6	216.8	216.4
162.5°	255.1	249.9	245.1	241.3	236.6	232.0	228.1	224.8	221.9	220.1	220.4
165°	250.3	246.2	243.0	240.3	237.2	233.1	230.4	228.1	225.5	224.5	225.0
167.5°	245.6	243.0	241.0	239.7	237.1	234.1	232.4	230.8	229.0	228.2	228.8
170°	243.0	241.2	239.9	239.0	236.7	234.5	233.1	232.2	230.8	230.4	231.3
172.5°	240.5	239.1	238.4	237.9	236.4	234.8	233.9	233.3	232.0	232.2	232.7
175°	237.2	236.7	236.3	236.7	235.8	234.9	234.5	234.5	233.5	234.0	234.5
177.5°	235.3	234.9	235.3	236.0	235.3	234.9	234.9	234.9	234.2	234.6	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331431-927

CATALOG NUMBER: S122DIP-S1005D530U927-4F0-1E-UDD-A4

**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°	12.5	14.8	15.0	16.6	15.9	16.4	17.0	17.0	16.6	16.1	15.5
90°	1.8	3.6	4.5	5.4	6.8	9.0	12.2	14.9	15.4	14.9	14.4
92.5°	7.9	11.2	13.2	16.2	20.5	30.7	45.1	57.9	58.7	49.6	39.4
95°	17.6	22.1	26.2	33.4	44.3	65.0	104.3	156.8	177.1	155.0	118.4
97.5°	28.2	33.0	39.1	47.5	59.7	85.9	140.6	227.7	302.3	317.1	276.2
100°	36.1	40.2	47.5	56.5	69.2	93.1	148.2	245.7	356.9	421.9	412.5
102.5°	44.1	48.2	55.4	64.8	77.4	99.6	148.5	238.9	358.7	461.0	501.8
105°	57.0	60.0	66.9	76.8	89.4	110.7	150.9	225.5	334.8	455.0	548.9
107.5°	69.6	72.6	78.9	88.7	101.5	122.1	157.1	218.7	309.1	415.3	514.9
110°	78.6	81.4	87.2	96.6	109.8	129.7	162.2	217.3	296.8	390.3	485.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	86.6	89.6	95.1	104.3	117.7	136.9	167.6	217.7	288.8	373.0	458.9
115°	99.4	102.1	107.5	116.5	128.7	148.2	175.7	219.6	280.1	351.5	426.0
117.5°	111.8	114.5	119.3	127.9	140.6	158.6	184.4	222.8	275.8	337.9	401.2
120°	119.7	122.4	126.5	135.5	148.2	165.8	190.2	225.0	273.3	330.7	389.0
122.5°	127.0	129.7	134.1	143.1	156.1	172.7	195.3	227.5	271.9	324.6	379.2
125°	136.9	139.6	145.0	154.1	166.7	183.0	203.3	231.3	269.3	315.8	365.0
127.5°	145.3	149.1	155.0	163.7	176.7	192.6	210.8	235.2	267.8	307.7	351.0
130°	150.0	154.5	160.8	169.8	182.5	198.4	215.5	238.1	267.0	302.2	342.0
132.5°	154.7	159.5	166.3	175.6	188.3	203.4	220.2	241.0	266.6	297.9	333.4
135°	160.8	166.3	173.0	183.4	196.1	210.6	226.3	244.4	266.1	291.8	321.2
137.5°	167.3	172.8	180.0	190.3	202.0	216.3	231.0	247.5	266.0	287.6	311.6
140°	171.7	177.1	184.3	194.2	206.0	219.6	233.5	248.9	265.6	285.1	305.4
142.5°	176.0	181.1	188.3	197.9	208.9	222.1	235.8	250.0	265.6	282.6	300.3
145°	183.4	187.9	194.7	203.7	213.7	225.9	238.5	251.2	264.7	279.2	293.2
147.5°	190.5	194.9	201.1	208.7	217.5	228.9	240.1	251.5	263.1	275.8	287.7
150°	195.6	199.2	205.1	211.9	220.0	230.4	240.8	251.2	262.1	272.9	283.7
152.5°	199.9	203.6	208.7	215.2	222.5	231.9	241.1	250.5	260.2	270.4	279.7
155°	206.9	209.6	214.6	219.6	226.3	234.0	241.7	249.4	257.1	265.6	274.3
157.5°	212.9	215.1	219.4	223.4	229.0	235.5	241.7	247.3	253.8	261.2	267.8
160°	216.8	218.6	222.3	225.9	230.8	236.3	241.7	246.2	251.7	257.9	263.8
162.5°	220.1	221.9	224.8	228.1	232.0	236.6	241.3	245.1	249.9	255.1	259.8
165°	224.5	225.5	228.1	230.4	233.1	237.2	240.3	243.0	246.2	250.3	253.9
167.5°	228.2	229.0	230.8	232.4	234.1	237.1	239.7	241.0	243.0	245.6	248.2
170°	230.4	230.8	232.2	233.1	234.5	236.7	239.0	239.9	241.2	243.0	245.3
172.5°	232.2	232.0	233.3	233.9	234.8	236.4	237.9	238.4	239.1	240.5	242.1
175°	234.0	233.5	234.5	234.5	234.9	235.8	236.7	236.3	236.7	237.2	238.5
177.5°	234.6	234.2	234.9	234.9	234.9	235.3	236.0	235.3	234.9	235.3	236.0
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



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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°	15.8	16.0	15.6	15.6	16.1	15.6	15.6
90°	13.5	14.4	14.9	14.9	14.9	14.9	14.9
92.5°	33.8	30.0	27.2	26.9	25.4	25.7	25.0
95°	90.8	71.9	61.9	56.0	52.4	51.0	51.5
97.5°	226.0	177.1	144.5	122.9	111.8	105.2	101.4
100°	356.5	294.5	239.9	202.4	183.0	169.8	161.8
102.5°	489.1	443.9	385.9	345.2	312.0	295.6	284.6
105°	599.9	605.9	590.9	562.9	534.9	515.5	509.1
107.5°	591.8	638.8	660.7	664.2	662.7	658.8	650.4
110°	566.5	624.3	661.4	680.8	689.4	693.5	693.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	536.5	598.3	640.8	667.8	682.1	689.8	692.3
115°	495.6	554.8	601.3	633.3	654.2	665.9	669.9
117.5°	462.3	516.0	559.7	592.4	614.3	626.7	630.1
120°	445.0	492.9	534.0	565.6	586.8	599.9	604.4
122.5°	430.6	475.9	513.0	541.4	562.3	573.9	577.7
125°	411.5	451.3	485.2	511.4	528.5	539.9	543.5
127.5°	393.2	430.6	461.9	484.7	500.8	510.6	513.5
130°	380.9	416.5	446.3	468.5	483.9	492.9	496.5
132.5°	369.3	402.1	430.1	451.9	467.2	475.5	478.8
135°	351.0	380.9	406.2	425.6	440.5	448.6	450.4
137.5°	336.5	360.1	382.2	399.9	412.7	419.9	422.6
140°	327.1	347.8	367.7	382.2	394.0	400.7	403.5
142.5°	318.8	336.7	353.3	367.0	377.7	383.7	384.3
145°	308.1	322.1	335.3	346.0	353.7	358.2	359.6
147.5°	299.4	310.4	320.0	328.9	335.0	338.1	338.9
150°	293.7	303.2	311.2	318.1	323.4	326.1	326.6
152.5°	289.0	297.0	304.0	309.3	314.1	316.1	316.2
155°	281.5	288.2	293.2	298.2	301.3	303.2	302.2
157.5°	273.9	279.6	283.4	286.9	289.6	290.4	290.4
160°	268.8	273.8	276.9	280.1	282.3	282.8	282.8
162.5°	264.1	268.4	270.8	273.9	275.5	275.9	275.6
165°	257.1	260.2	262.1	263.8	265.6	265.6	265.2
167.5°	250.6	252.8	254.4	255.2	256.3	256.2	255.6
170°	246.7	248.5	249.4	249.9	251.2	250.7	249.9
172.5°	243.0	244.5	245.0	245.5	246.1	245.7	245.1
175°	239.0	239.5	239.9	239.9	240.3	239.9	239.0
177.5°	236.0	236.4	236.4	236.4	236.4	236.0	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9

(END OF REPORT)