

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: P331431-935

Luminaire Tested: **SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331431-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D530U935-4F0-1E-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

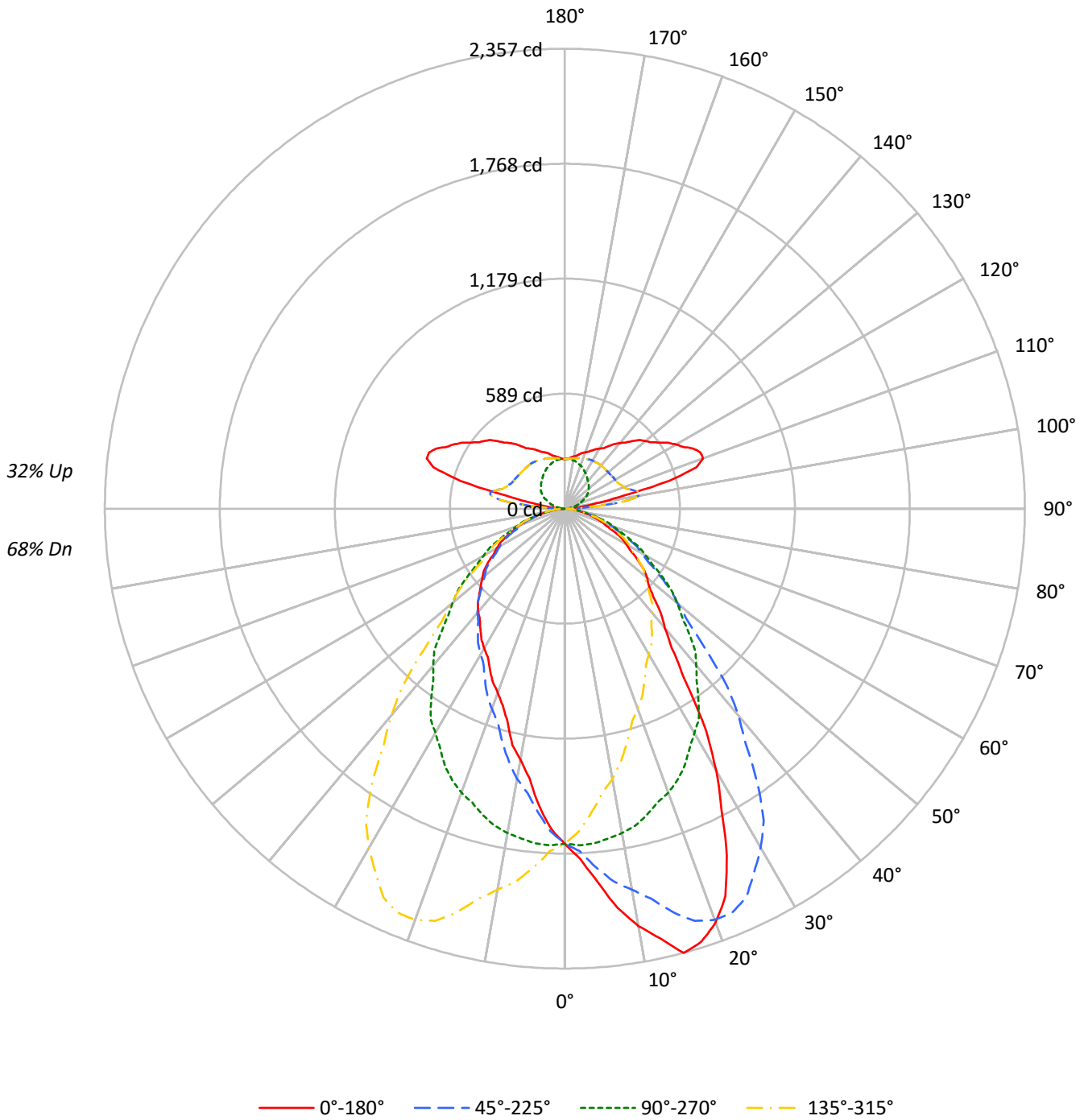
Lumens per Lamp: N/A
Luminaire Lumens: 5566.8 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68				
1	102	98	95	91	97	93	90	87	83	80	78	74	72	70	65	64	63	59				
2	94	87	81	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°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	2.9
10°-20°	475.3	8.5
20°-30°	689.9	12.4
30°-40°	728.0	13.1
40°-50°	644.6	11.6
50°-60°	514.4	9.2
60°-70°	349.6	6.3
70°-80°	179.3	3.2
80°-90°	45.5	0.8
90°-100°	102.1	1.8
100°-110°	346.4	6.2
110°-120°	368.0	6.6
120°-130°	303.0	5.4
130°-140°	243.3	4.4
140°-150°	183.9	3.3
150°-160°	129.2	2.3
160°-170°	76.1	1.4
170°-180°	24.8	0.4
0°-30°	1328.7	23.9
0°-40°	2056.7	36.9
0°-60°	3215.7	57.8
0°-90°	3790.1	68.1
90°-120°	816.6	14.7
90°-150°	1546.7	27.8
90°-180°	1777.0	31.9
0°-180°	5566.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	39
90°	16	0	16	0	16	10
95°	56	17	56	17	56	73
105°	553	60	553	60	553	535
115°	728	106	728	106	728	713
125°	591	147	591	147	591	534
135°	490	173	490	173	490	380
145°	391	197	391	197	391	248
155°	328	224	328	224	328	153
165°	288	244	288	244	288	82
175°	260	255	260	255	260	25
180°	255	255	255	255	255	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	17.0	17.0	17.5	17.0	17.0	17.4	17.2	16.9	17.5	18.1	18.5
90°	16.2	16.2	16.2	16.2	16.2	15.7	14.7	15.7	16.2	16.7	16.2
92.5°	27.2	28.0	27.6	29.2	29.5	32.6	36.8	42.8	53.9	63.8	62.9
95°	56.0	55.4	57.0	60.9	67.2	78.1	98.7	128.6	168.4	192.5	170.4
97.5°	110.2	114.3	121.5	133.5	157.0	192.5	245.6	300.2	344.7	328.6	247.5
100°	175.8	184.6	198.9	220.0	260.7	320.1	387.4	448.3	458.6	387.9	267.1
102.5°	309.4	321.3	339.1	375.1	419.4	482.4	531.6	545.4	501.0	389.9	259.7
105°	553.4	560.3	581.3	611.8	642.2	658.5	652.0	596.6	494.5	363.9	245.0
107.5°	706.9	716.0	720.2	721.9	718.1	694.3	643.3	559.6	451.3	336.0	237.7
110°	753.2	753.7	749.3	739.9	718.8	678.6	615.7	527.9	424.2	322.6	236.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	752.4	749.8	741.4	725.8	696.5	650.3	583.2	498.8	405.4	313.9	236.6
115°	728.1	723.8	711.0	688.4	653.6	603.0	538.6	463.0	382.0	304.4	238.7
117.5°	684.8	681.1	667.7	643.9	608.3	560.9	502.5	436.1	367.3	299.8	242.2
120°	656.9	652.0	637.8	614.8	580.4	535.7	483.6	422.8	359.5	297.0	244.5
122.5°	627.9	623.8	611.1	588.4	557.6	517.2	468.0	412.2	352.8	295.5	247.3
125°	590.7	586.8	574.5	555.9	527.4	490.5	447.3	396.7	343.2	292.7	251.4
127.5°	558.1	554.9	544.3	526.8	502.0	468.0	427.3	381.5	334.4	291.0	255.6
130°	539.6	535.7	525.9	509.2	485.1	452.7	414.0	371.7	328.5	290.2	258.7
132.5°	520.4	516.9	507.8	491.1	467.4	437.0	401.4	362.3	323.7	289.8	261.9
135°	489.6	487.6	478.7	462.5	441.4	414.0	381.5	349.1	317.2	289.2	265.6
137.5°	459.3	456.3	448.6	434.6	415.4	391.4	365.8	338.6	312.5	289.1	269.0
140°	438.5	435.5	428.2	415.4	399.7	378.1	355.5	331.9	309.9	288.7	270.5
142.5°	417.7	417.1	410.5	398.9	384.0	365.9	346.5	326.4	307.1	288.7	271.7
145°	390.8	389.3	384.4	376.1	364.4	350.1	334.8	318.7	303.4	287.7	273.0
147.5°	368.3	367.5	364.1	357.5	347.8	337.3	325.5	312.7	299.7	285.9	273.4
150°	355.0	354.5	351.5	345.7	338.3	329.5	319.2	308.3	296.6	284.8	273.0
152.5°	343.6	343.5	341.4	336.2	330.5	322.8	314.1	304.0	293.9	282.8	272.2
155°	328.5	329.5	327.5	324.1	318.7	313.2	305.9	298.1	288.7	279.4	271.0
157.5°	315.6	315.6	314.8	311.9	308.1	303.8	297.6	291.1	283.9	275.9	268.8
160°	307.4	307.4	306.9	304.4	301.0	297.6	292.1	286.7	280.3	273.5	267.6
162.5°	299.5	299.9	299.5	297.7	294.3	291.7	287.1	282.4	277.2	271.6	266.4
165°	288.3	288.7	288.7	286.7	284.8	282.8	279.4	276.0	272.0	267.6	264.2
167.5°	277.8	278.4	278.5	277.4	276.6	274.7	272.4	269.8	266.9	264.2	261.9
170°	271.6	272.5	273.0	271.6	271.0	270.1	268.1	266.7	264.2	262.2	260.7
172.5°	266.4	267.0	267.5	266.8	266.3	265.7	264.2	263.1	261.4	259.8	259.2
175°	259.8	260.7	261.2	260.7	260.7	260.3	259.8	259.2	257.8	257.3	256.8
177.5°	255.7	256.5	256.9	256.9	256.9	256.9	256.5	256.5	255.7	255.3	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	18.5	17.8	17.3	18.1	16.3	16.1	13.6	11.7	11.5	11.4	10.5
90°	13.3	9.8	7.4	5.9	4.9	4.0	2.0	0.5	2.0	4.0	4.9
92.5°	49.0	33.4	22.3	17.7	14.4	12.1	8.6	6.0	8.6	12.1	14.4
95°	113.4	70.7	48.1	36.3	28.5	24.0	19.1	17.2	19.1	24.0	28.5
97.5°	152.8	93.3	64.9	51.6	42.5	35.8	30.7	28.0	30.7	35.8	42.5
100°	161.1	101.2	75.2	61.4	51.6	43.7	39.3	37.8	39.3	43.7	51.6
102.5°	161.4	108.2	84.1	70.4	60.2	52.3	48.0	46.8	48.0	52.3	60.2
105°	164.0	120.3	97.2	83.4	72.7	65.3	61.9	59.9	61.9	65.3	72.7
107.5°	170.7	132.7	110.3	96.4	85.8	79.0	75.6	74.0	75.6	79.0	85.8
110°	176.2	140.9	119.3	105.0	94.8	88.4	85.4	83.4	85.4	88.4	94.8



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	182.2	148.8	127.9	113.3	103.4	97.4	94.1	92.1	94.1	97.4	103.4
115°	191.0	161.1	139.9	126.7	116.8	111.0	108.1	105.6	108.1	111.0	116.8
117.5°	200.4	172.4	152.8	139.1	129.7	124.4	121.5	119.5	121.5	124.4	129.7
120°	206.7	180.2	161.1	147.3	137.5	133.0	130.1	128.1	130.1	133.0	137.5
122.5°	212.2	187.7	169.7	155.6	145.8	140.9	138.0	136.4	138.0	140.9	145.8
125°	220.9	198.9	181.2	167.5	157.6	151.7	148.8	147.3	148.8	151.7	157.6
127.5°	229.1	209.3	192.1	178.0	168.5	162.0	157.9	155.9	157.9	162.0	168.5
130°	234.2	215.6	198.4	184.6	174.8	167.9	163.0	161.1	163.0	167.9	174.8
132.5°	239.4	221.0	204.7	190.9	180.7	173.4	168.2	165.7	168.2	173.4	180.7
135°	246.0	228.9	213.1	199.3	188.0	180.7	174.8	172.8	174.8	180.7	188.0
137.5°	251.1	235.1	219.6	206.8	195.6	187.8	181.8	179.5	181.8	187.8	195.6
140°	253.8	238.7	223.9	211.1	200.4	192.5	186.6	184.6	186.6	192.5	200.4
142.5°	256.2	241.4	227.0	215.1	204.7	196.8	191.3	189.8	191.3	196.8	204.7
145°	259.2	245.5	232.2	221.4	211.6	204.2	199.3	197.4	199.3	204.2	211.6
147.5°	261.0	248.8	236.3	226.8	218.6	211.8	207.1	205.6	207.1	211.8	218.6
150°	261.7	250.4	239.1	230.3	222.9	216.5	212.6	211.1	212.6	216.5	222.9
152.5°	262.1	252.0	241.9	233.8	226.9	221.3	217.3	216.6	217.3	221.3	226.9
155°	262.7	254.3	246.0	238.7	233.2	227.8	224.9	224.4	224.9	227.8	233.2
157.5°	262.7	256.0	248.9	242.8	238.4	233.8	231.4	230.8	231.4	233.8	238.4
160°	262.7	256.8	250.9	245.5	241.6	237.6	235.7	235.2	235.7	237.6	241.6
162.5°	262.3	257.2	252.1	247.9	244.4	241.2	239.2	239.5	239.2	241.2	244.4
165°	261.2	257.8	253.4	250.4	248.0	245.0	244.0	244.5	244.0	245.0	248.0
167.5°	260.5	257.7	254.4	252.6	250.8	248.9	248.1	248.7	248.1	248.9	250.8
170°	259.8	257.3	254.9	253.4	252.4	250.9	250.4	251.4	250.4	250.9	252.4
172.5°	258.6	256.9	255.2	254.2	253.6	252.1	252.4	253.0	252.4	252.1	253.6
175°	257.3	256.3	255.3	254.9	254.9	253.8	254.3	254.9	254.3	253.8	254.9
177.5°	256.5	255.7	255.3	255.3	255.3	254.5	254.9	255.7	254.9	254.5	255.3
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	10.2	9.9	9.9	10.6	10.6	10.2	9.6	9.5	9.3	8.4	8.5
90°	5.9	7.4	9.8	13.3	16.2	16.7	16.2	15.7	14.7	15.7	16.2
92.5°	17.7	22.3	33.4	49.0	62.9	63.8	53.9	42.8	36.8	32.6	29.5
95°	36.3	48.1	70.7	113.4	170.4	192.5	168.4	128.6	98.7	78.1	67.2
97.5°	51.6	64.9	93.3	152.8	247.5	328.6	344.7	300.2	245.6	192.5	157.0
100°	61.4	75.2	101.2	161.1	267.1	387.9	458.6	448.3	387.4	320.1	260.7
102.5°	70.4	84.1	108.2	161.4	259.7	389.9	501.0	545.4	531.6	482.4	419.4
105°	83.4	97.2	120.3	164.0	245.0	363.9	494.5	596.6	652.0	658.5	642.2
107.5°	96.4	110.3	132.7	170.7	237.7	336.0	451.3	559.6	643.3	694.3	718.1
110°	105.0	119.3	140.9	176.2	236.2	322.6	424.2	527.9	615.7	678.6	718.8



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	113.3	127.9	148.8	182.2	236.6	313.9	405.4	498.8	583.2	650.3	696.5
115°	126.7	139.9	161.1	191.0	238.7	304.4	382.0	463.0	538.6	603.0	653.6
117.5°	139.1	152.8	172.4	200.4	242.2	299.8	367.3	436.1	502.5	560.9	608.3
120°	147.3	161.1	180.2	206.7	244.5	297.0	359.5	422.8	483.6	535.7	580.4
122.5°	155.6	169.7	187.7	212.2	247.3	295.5	352.8	412.2	468.0	517.2	557.6
125°	167.5	181.2	198.9	220.9	251.4	292.7	343.2	396.7	447.3	490.5	527.4
127.5°	178.0	192.1	209.3	229.1	255.6	291.0	334.4	381.5	427.3	468.0	502.0
130°	184.6	198.4	215.6	234.2	258.7	290.2	328.5	371.7	414.0	452.7	485.1
132.5°	190.9	204.7	221.0	239.4	261.9	289.8	323.7	362.3	401.4	437.0	467.4
135°	199.3	213.1	228.9	246.0	265.6	289.2	317.2	349.1	381.5	414.0	441.4
137.5°	206.8	219.6	235.1	251.1	269.0	289.1	312.5	338.6	365.8	391.4	415.4
140°	211.1	223.9	238.7	253.8	270.5	288.7	309.9	331.9	355.5	378.1	399.7
142.5°	215.1	227.0	241.4	256.2	271.7	288.7	307.1	326.4	346.5	365.9	384.0
145°	221.4	232.2	245.5	259.2	273.0	287.7	303.4	318.7	334.8	350.1	364.4
147.5°	226.8	236.3	248.8	261.0	273.4	285.9	299.7	312.7	325.5	337.3	347.8
150°	230.3	239.1	250.4	261.7	273.0	284.8	296.6	308.3	319.2	329.5	338.3
152.5°	233.8	241.9	252.0	262.1	272.2	282.8	293.9	304.0	314.1	322.8	330.5
155°	238.7	246.0	254.3	262.7	271.0	279.4	288.7	298.1	305.9	313.2	318.7
157.5°	242.8	248.9	256.0	262.7	268.8	275.9	283.9	291.1	297.6	303.8	308.1
160°	245.5	250.9	256.8	262.7	267.6	273.5	280.3	286.7	292.1	297.6	301.0
162.5°	247.9	252.1	257.2	262.3	266.4	271.6	277.2	282.4	287.1	291.7	294.3
165°	250.4	253.4	257.8	261.2	264.2	267.6	272.0	276.0	279.4	282.8	284.8
167.5°	252.6	254.4	257.7	260.5	261.9	264.2	266.9	269.8	272.4	274.7	276.6
170°	253.4	254.9	257.3	259.8	260.7	262.2	264.2	266.7	268.1	270.1	271.0
172.5°	254.2	255.2	256.9	258.6	259.2	259.8	261.4	263.1	264.2	265.7	266.3
175°	254.9	255.3	256.3	257.3	256.8	257.3	257.8	259.2	259.8	260.3	260.7
177.5°	255.3	255.3	255.7	256.5	255.7	255.3	255.7	256.5	256.5	256.9	256.9
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331431-935
 CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	8.5	8.0	8.0	7.5	8.0	8.0	8.5	8.5	8.4	9.3	9.5
90°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	15.7	14.7	15.7
92.5°	29.2	27.6	28.0	27.2	28.0	27.6	29.2	29.5	32.6	36.8	42.8
95°	60.9	57.0	55.4	56.0	55.4	57.0	60.9	67.2	78.1	98.7	128.6
97.5°	133.5	121.5	114.3	110.2	114.3	121.5	133.5	157.0	192.5	245.6	300.2
100°	220.0	198.9	184.6	175.8	184.6	198.9	220.0	260.7	320.1	387.4	448.3
102.5°	375.1	339.1	321.3	309.4	321.3	339.1	375.1	419.4	482.4	531.6	545.4
105°	611.8	581.3	560.3	553.4	560.3	581.3	611.8	642.2	658.5	652.0	596.6
107.5°	721.9	720.2	716.0	706.9	716.0	720.2	721.9	718.1	694.3	643.3	559.6
110°	739.9	749.3	753.7	753.2	753.7	749.3	739.9	718.8	678.6	615.7	527.9



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	725.8	741.4	749.8	752.4	749.8	741.4	725.8	696.5	650.3	583.2	498.8
115°	688.4	711.0	723.8	728.1	723.8	711.0	688.4	653.6	603.0	538.6	463.0
117.5°	643.9	667.7	681.1	684.8	681.1	667.7	643.9	608.3	560.9	502.5	436.1
120°	614.8	637.8	652.0	656.9	652.0	637.8	614.8	580.4	535.7	483.6	422.8
122.5°	588.4	611.1	623.8	627.9	623.8	611.1	588.4	557.6	517.2	468.0	412.2
125°	555.9	574.5	586.8	590.7	586.8	574.5	555.9	527.4	490.5	447.3	396.7
127.5°	526.8	544.3	554.9	558.1	554.9	544.3	526.8	502.0	468.0	427.3	381.5
130°	509.2	525.9	535.7	539.6	535.7	525.9	509.2	485.1	452.7	414.0	371.7
132.5°	491.1	507.8	516.9	520.4	516.9	507.8	491.1	467.4	437.0	401.4	362.3
135°	462.5	478.7	487.6	489.6	487.6	478.7	462.5	441.4	414.0	381.5	349.1
137.5°	434.6	448.6	456.3	459.3	456.3	448.6	434.6	415.4	391.4	365.8	338.6
140°	415.4	428.2	435.5	438.5	435.5	428.2	415.4	399.7	378.1	355.5	331.9
142.5°	398.9	410.5	417.1	417.7	417.1	410.5	398.9	384.0	365.9	346.5	326.4
145°	376.1	384.4	389.3	390.8	389.3	384.4	376.1	364.4	350.1	334.8	318.7
147.5°	357.5	364.1	367.5	368.3	367.5	364.1	357.5	347.8	337.3	325.5	312.7
150°	345.7	351.5	354.5	355.0	354.5	351.5	345.7	338.3	329.5	319.2	308.3
152.5°	336.2	341.4	343.5	343.6	343.5	341.4	336.2	330.5	322.8	314.1	304.0
155°	324.1	327.5	329.5	328.5	329.5	327.5	324.1	318.7	313.2	305.9	298.1
157.5°	311.9	314.8	315.6	315.6	315.6	314.8	311.9	308.1	303.8	297.6	291.1
160°	304.4	306.9	307.4	307.4	307.4	306.9	304.4	301.0	297.6	292.1	286.7
162.5°	297.7	299.5	299.9	299.5	299.9	299.5	297.7	294.3	291.7	287.1	282.4
165°	286.7	288.7	288.7	288.3	288.7	288.7	286.7	284.8	282.8	279.4	276.0
167.5°	277.4	278.5	278.4	277.8	278.4	278.5	277.4	276.6	274.7	272.4	269.8
170°	271.6	273.0	272.5	271.6	272.5	273.0	271.6	271.0	270.1	268.1	266.7
172.5°	266.8	267.5	267.0	266.4	267.0	267.5	266.8	266.3	265.7	264.2	263.1
175°	260.7	261.2	260.7	259.8	260.7	261.2	260.7	260.7	260.3	259.8	259.2
177.5°	256.9	256.9	256.5	255.7	256.5	256.9	256.9	256.9	256.9	256.5	256.5
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	9.6	10.2	10.6	10.6	9.9	9.9	10.2	10.5	11.4	11.5	11.7
90°	16.2	16.7	16.2	13.3	9.8	7.4	5.9	4.9	4.0	2.0	0.5
92.5°	53.9	63.8	62.9	49.0	33.4	22.3	17.7	14.4	12.1	8.6	6.0
95°	168.4	192.5	170.4	113.4	70.7	48.1	36.3	28.5	24.0	19.1	17.2
97.5°	344.7	328.6	247.5	152.8	93.3	64.9	51.6	42.5	35.8	30.7	28.0
100°	458.6	387.9	267.1	161.1	101.2	75.2	61.4	51.6	43.7	39.3	37.8
102.5°	501.0	389.9	259.7	161.4	108.2	84.1	70.4	60.2	52.3	48.0	46.8
105°	494.5	363.9	245.0	164.0	120.3	97.2	83.4	72.7	65.3	61.9	59.9
107.5°	451.3	336.0	237.7	170.7	132.7	110.3	96.4	85.8	79.0	75.6	74.0
110°	424.2	322.6	236.2	176.2	140.9	119.3	105.0	94.8	88.4	85.4	83.4



TEST NUMBER: P331431-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	405.4	313.9	236.6	182.2	148.8	127.9	113.3	103.4	97.4	94.1	92.1
115°	382.0	304.4	238.7	191.0	161.1	139.9	126.7	116.8	111.0	108.1	105.6
117.5°	367.3	299.8	242.2	200.4	172.4	152.8	139.1	129.7	124.4	121.5	119.5
120°	359.5	297.0	244.5	206.7	180.2	161.1	147.3	137.5	133.0	130.1	128.1
122.5°	352.8	295.5	247.3	212.2	187.7	169.7	155.6	145.8	140.9	138.0	136.4
125°	343.2	292.7	251.4	220.9	198.9	181.2	167.5	157.6	151.7	148.8	147.3
127.5°	334.4	291.0	255.6	229.1	209.3	192.1	178.0	168.5	162.0	157.9	155.9
130°	328.5	290.2	258.7	234.2	215.6	198.4	184.6	174.8	167.9	163.0	161.1
132.5°	323.7	289.8	261.9	239.4	221.0	204.7	190.9	180.7	173.4	168.2	165.7
135°	317.2	289.2	265.6	246.0	228.9	213.1	199.3	188.0	180.7	174.8	172.8
137.5°	312.5	289.1	269.0	251.1	235.1	219.6	206.8	195.6	187.8	181.8	179.5
140°	309.9	288.7	270.5	253.8	238.7	223.9	211.1	200.4	192.5	186.6	184.6
142.5°	307.1	288.7	271.7	256.2	241.4	227.0	215.1	204.7	196.8	191.3	189.8
145°	303.4	287.7	273.0	259.2	245.5	232.2	221.4	211.6	204.2	199.3	197.4
147.5°	299.7	285.9	273.4	261.0	248.8	236.3	226.8	218.6	211.8	207.1	205.6
150°	296.6	284.8	273.0	261.7	250.4	239.1	230.3	222.9	216.5	212.6	211.1
152.5°	293.9	282.8	272.2	262.1	252.0	241.9	233.8	226.9	221.3	217.3	216.6
155°	288.7	279.4	271.0	262.7	254.3	246.0	238.7	233.2	227.8	224.9	224.4
157.5°	283.9	275.9	268.8	262.7	256.0	248.9	242.8	238.4	233.8	231.4	230.8
160°	280.3	273.5	267.6	262.7	256.8	250.9	245.5	241.6	237.6	235.7	235.2
162.5°	277.2	271.6	266.4	262.3	257.2	252.1	247.9	244.4	241.2	239.2	239.5
165°	272.0	267.6	264.2	261.2	257.8	253.4	250.4	248.0	245.0	244.0	244.5
167.5°	266.9	264.2	261.9	260.5	257.7	254.4	252.6	250.8	248.9	248.1	248.7
170°	264.2	262.2	260.7	259.8	257.3	254.9	253.4	252.4	250.9	250.4	251.4
172.5°	261.4	259.8	259.2	258.6	256.9	255.2	254.2	253.6	252.1	252.4	253.0
175°	257.8	257.3	256.8	257.3	256.3	255.3	254.9	254.9	253.8	254.3	254.9
177.5°	255.7	255.3	255.7	256.5	255.7	255.3	255.3	255.3	254.5	254.9	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331431-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.6	16.1	16.3	18.1	17.3	17.8	18.5	18.5	18.1	17.5	16.9
90°	2.0	4.0	4.9	5.9	7.4	9.8	13.3	16.2	16.7	16.2	15.7
92.5°	8.6	12.1	14.4	17.7	22.3	33.4	49.0	62.9	63.8	53.9	42.8
95°	19.1	24.0	28.5	36.3	48.1	70.7	113.4	170.4	192.5	168.4	128.6
97.5°	30.7	35.8	42.5	51.6	64.9	93.3	152.8	247.5	328.6	344.7	300.2
100°	39.3	43.7	51.6	61.4	75.2	101.2	161.1	267.1	387.9	458.6	448.3
102.5°	48.0	52.3	60.2	70.4	84.1	108.2	161.4	259.7	389.9	501.0	545.4
105°	61.9	65.3	72.7	83.4	97.2	120.3	164.0	245.0	363.9	494.5	596.6
107.5°	75.6	79.0	85.8	96.4	110.3	132.7	170.7	237.7	336.0	451.3	559.6
110°	85.4	88.4	94.8	105.0	119.3	140.9	176.2	236.2	322.6	424.2	527.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	94.1	97.4	103.4	113.3	127.9	148.8	182.2	236.6	313.9	405.4	498.8
115°	108.1	111.0	116.8	126.7	139.9	161.1	191.0	238.7	304.4	382.0	463.0
117.5°	121.5	124.4	129.7	139.1	152.8	172.4	200.4	242.2	299.8	367.3	436.1
120°	130.1	133.0	137.5	147.3	161.1	180.2	206.7	244.5	297.0	359.5	422.8
122.5°	138.0	140.9	145.8	155.6	169.7	187.7	212.2	247.3	295.5	352.8	412.2
125°	148.8	151.7	157.6	167.5	181.2	198.9	220.9	251.4	292.7	343.2	396.7
127.5°	157.9	162.0	168.5	178.0	192.1	209.3	229.1	255.6	291.0	334.4	381.5
130°	163.0	167.9	174.8	184.6	198.4	215.6	234.2	258.7	290.2	328.5	371.7
132.5°	168.2	173.4	180.7	190.9	204.7	221.0	239.4	261.9	289.8	323.7	362.3
135°	174.8	180.7	188.0	199.3	213.1	228.9	246.0	265.6	289.2	317.2	349.1
137.5°	181.8	187.8	195.6	206.8	219.6	235.1	251.1	269.0	289.1	312.5	338.6
140°	186.6	192.5	200.4	211.1	223.9	238.7	253.8	270.5	288.7	309.9	331.9
142.5°	191.3	196.8	204.7	215.1	227.0	241.4	256.2	271.7	288.7	307.1	326.4
145°	199.3	204.2	211.6	221.4	232.2	245.5	259.2	273.0	287.7	303.4	318.7
147.5°	207.1	211.8	218.6	226.8	236.3	248.8	261.0	273.4	285.9	299.7	312.7
150°	212.6	216.5	222.9	230.3	239.1	250.4	261.7	273.0	284.8	296.6	308.3
152.5°	217.3	221.3	226.9	233.8	241.9	252.0	262.1	272.2	282.8	293.9	304.0
155°	224.9	227.8	233.2	238.7	246.0	254.3	262.7	271.0	279.4	288.7	298.1
157.5°	231.4	233.8	238.4	242.8	248.9	256.0	262.7	268.8	275.9	283.9	291.1
160°	235.7	237.6	241.6	245.5	250.9	256.8	262.7	267.6	273.5	280.3	286.7
162.5°	239.2	241.2	244.4	247.9	252.1	257.2	262.3	266.4	271.6	277.2	282.4
165°	244.0	245.0	248.0	250.4	253.4	257.8	261.2	264.2	267.6	272.0	276.0
167.5°	248.1	248.9	250.8	252.6	254.4	257.7	260.5	261.9	264.2	266.9	269.8
170°	250.4	250.9	252.4	253.4	254.9	257.3	259.8	260.7	262.2	264.2	266.7
172.5°	252.4	252.1	253.6	254.2	255.2	256.9	258.6	259.2	259.8	261.4	263.1
175°	254.3	253.8	254.9	254.9	255.3	256.3	257.3	256.8	257.3	257.8	259.2
177.5°	254.9	254.5	255.3	255.3	255.3	255.7	256.5	255.7	255.3	255.7	256.5
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	17.2	17.4	17.0	17.0	17.5	17.0	17.0
90°	14.7	15.7	16.2	16.2	16.2	16.2	16.2
92.5°	36.8	32.6	29.5	29.2	27.6	28.0	27.2
95°	98.7	78.1	67.2	60.9	57.0	55.4	56.0
97.5°	245.6	192.5	157.0	133.5	121.5	114.3	110.2
100°	387.4	320.1	260.7	220.0	198.9	184.6	175.8
102.5°	531.6	482.4	419.4	375.1	339.1	321.3	309.4
105°	652.0	658.5	642.2	611.8	581.3	560.3	553.4
107.5°	643.3	694.3	718.1	721.9	720.2	716.0	706.9
110°	615.7	678.6	718.8	739.9	749.3	753.7	753.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	583.2	650.3	696.5	725.8	741.4	749.8	752.4
115°	538.6	603.0	653.6	688.4	711.0	723.8	728.1
117.5°	502.5	560.9	608.3	643.9	667.7	681.1	684.8
120°	483.6	535.7	580.4	614.8	637.8	652.0	656.9
122.5°	468.0	517.2	557.6	588.4	611.1	623.8	627.9
125°	447.3	490.5	527.4	555.9	574.5	586.8	590.7
127.5°	427.3	468.0	502.0	526.8	544.3	554.9	558.1
130°	414.0	452.7	485.1	509.2	525.9	535.7	539.6
132.5°	401.4	437.0	467.4	491.1	507.8	516.9	520.4
135°	381.5	414.0	441.4	462.5	478.7	487.6	489.6
137.5°	365.8	391.4	415.4	434.6	448.6	456.3	459.3
140°	355.5	378.1	399.7	415.4	428.2	435.5	438.5
142.5°	346.5	365.9	384.0	398.9	410.5	417.1	417.7
145°	334.8	350.1	364.4	376.1	384.4	389.3	390.8
147.5°	325.5	337.3	347.8	357.5	364.1	367.5	368.3
150°	319.2	329.5	338.3	345.7	351.5	354.5	355.0
152.5°	314.1	322.8	330.5	336.2	341.4	343.5	343.6
155°	305.9	313.2	318.7	324.1	327.5	329.5	328.5
157.5°	297.6	303.8	308.1	311.9	314.8	315.6	315.6
160°	292.1	297.6	301.0	304.4	306.9	307.4	307.4
162.5°	287.1	291.7	294.3	297.7	299.5	299.9	299.5
165°	279.4	282.8	284.8	286.7	288.7	288.7	288.3
167.5°	272.4	274.7	276.6	277.4	278.5	278.4	277.8
170°	268.1	270.1	271.0	271.6	273.0	272.5	271.6
172.5°	264.2	265.7	266.3	266.8	267.5	267.0	266.4
175°	259.8	260.3	260.7	260.7	261.2	260.7	259.8
177.5°	256.5	256.9	256.9	256.9	256.9	256.5	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3

(END OF REPORT)