

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: P331430-935

Luminaire Tested: **SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331430-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
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-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

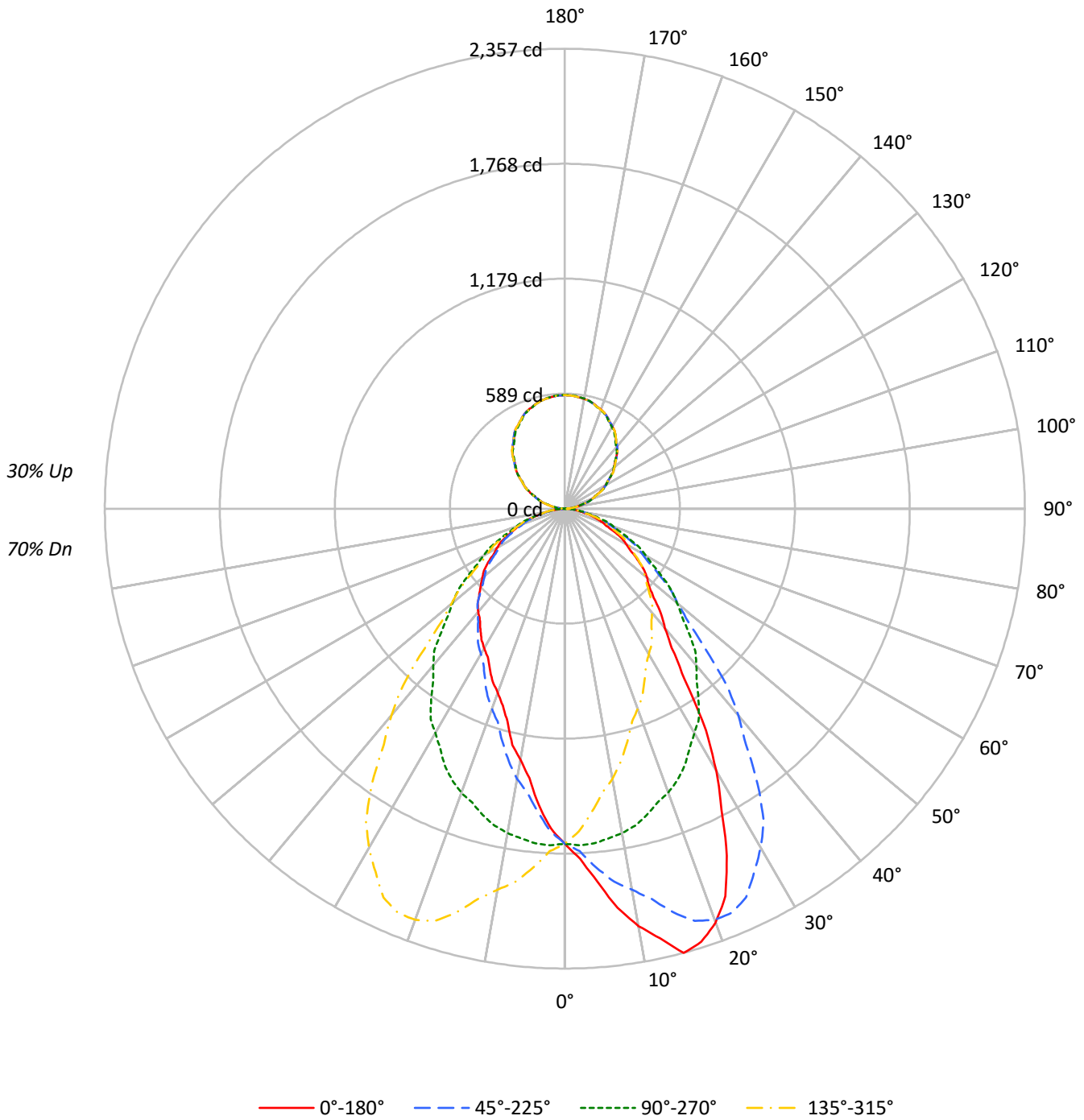
Lumens per Lamp: N/A  
Luminaire Lumens: 5416.9 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	66	64	60
2	94	87	81	76	89	83	77	73	74	70	67	67	64	61	60	57	55	52
3	86	77	70	64	82	73	67	62	66	61	57	60	56	52	54	50	48	44
4	80	69	61	55	75	66	58	53	59	54	49	54	49	45	48	45	42	39
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	34
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33	30
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	37	33	29	27
8	59	46	39	33	56	44	37	32	41	35	30	37	32	29	34	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	34	29	26	32	27	24	22
10	51	39	32	27	49	38	31	27	35	29	25	32	27	24	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	3.0
10°-20°	475.3	8.8
20°-30°	689.9	12.7
30°-40°	728.0	13.4
40°-50°	644.6	11.9
50°-60°	514.4	9.5
60°-70°	349.6	6.5
70°-80°	179.3	3.3
80°-90°	45.5	0.8
90°-100°	36.9	0.7
100°-110°	114.5	2.1
110°-120°	195.7	3.6
120°-130°	257.4	4.8
130°-140°	288.9	5.3
140°-150°	283.3	5.2
150°-160°	237.6	4.4
160°-170°	157.6	2.9
170°-180°	55.1	1.0
0°-30°	1328.7	24.5
0°-40°	2056.7	38.0
0°-60°	3215.7	59.4
0°-90°	3790.1	70.0
90°-120°	347.1	6.4
90°-150°	1176.6	21.7
90°-180°	1627.0	30.0
0°-180°	5416.9	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°	17	0	17	0	17	9
95°	30	26	30	26	30	34
105°	109	106	109	106	109	115
115°	196	196	196	196	196	194
125°	287	286	287	286	287	256
135°	374	370	374	370	374	288
145°	454	449	454	449	454	283
155°	517	513	517	513	517	238
165°	559	558	559	558	559	158
175°	579	581	579	581	579	55
180°	582	582	582	582	582	



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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	17.6	17.0	17.0	17.5	17.6	17.0	17.7	18.3	18.3
90°	16.7	16.6	16.4	16.4	16.3	16.3	16.5	16.8	17.0	17.2	14.8
92.5°	15.9	15.9	15.8	15.8	15.8	15.8	15.8	15.7	15.7	15.6	15.1
95°	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.4	31.4	31.4	31.2
97.5°	52.7	52.8	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.4
100°	67.2	67.4	67.5	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.4
102.5°	83.8	83.9	83.9	84.1	84.2	84.2	84.1	84.0	83.9	83.9	83.4
105°	109.0	109.0	109.0	109.0	109.0	108.9	108.7	108.5	108.2	108.1	107.8
107.5°	132.8	133.3	133.8	134.2	134.7	135.0	134.9	134.8	134.7	134.7	134.7
110°	151.2	151.5	151.9	152.2	152.6	152.7	152.7	152.7	152.7	152.7	152.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.9	169.1	169.4	169.6	169.9	170.1	170.4	170.7	170.9	171.2	171.3
115°	196.4	196.7	197.1	197.3	197.7	197.9	198.0	198.1	198.3	198.4	198.5
117.5°	222.6	222.9	223.3	223.6	223.9	224.2	224.5	224.7	225.0	225.2	225.8
120°	241.1	241.4	241.8	242.0	242.4	242.5	242.5	242.5	242.5	242.5	243.4
122.5°	259.2	259.4	259.6	259.8	260.1	260.4	260.6	260.9	261.1	261.4	262.0
125°	286.7	286.8	287.0	287.1	287.1	287.4	287.7	288.0	288.3	288.7	289.0
127.5°	311.9	312.2	312.5	312.9	313.2	313.7	314.0	314.4	314.8	315.2	315.6
130°	329.9	330.4	330.8	331.2	331.7	332.0	332.3	332.4	332.7	332.9	333.1
132.5°	347.2	347.6	347.9	348.3	348.6	349.0	349.5	350.0	350.5	350.9	350.9
135°	374.1	374.4	374.8	375.1	375.4	375.7	375.7	375.9	376.0	376.1	375.9
137.5°	398.5	398.9	399.3	399.8	400.2	400.5	400.5	400.6	400.7	400.8	400.5
140°	415.3	415.8	416.2	416.6	417.2	417.3	417.3	417.3	417.3	417.3	416.8
142.5°	430.7	431.1	431.5	432.0	432.4	432.6	432.5	432.4	432.3	432.2	431.9
145°	453.7	454.1	454.5	455.0	455.4	455.6	455.5	455.4	455.2	455.1	454.5
147.5°	474.2	474.6	475.0	475.4	475.9	476.0	475.7	475.4	475.2	475.0	474.5
150°	487.6	487.8	488.2	488.5	488.9	488.9	488.5	488.2	487.8	487.6	487.1
152.5°	500.2	500.5	500.9	501.4	501.8	501.8	501.4	500.9	500.5	500.2	499.6
155°	517.0	517.3	517.6	518.0	518.3	518.2	517.6	517.1	516.6	516.0	515.7
157.5°	531.5	532.1	532.6	533.1	533.6	533.6	532.8	532.0	531.3	530.5	530.4
160°	540.5	541.0	541.5	541.9	542.3	542.2	541.6	540.9	540.3	539.6	539.5
162.5°	548.5	549.0	549.5	550.0	550.5	550.4	549.7	548.9	548.2	547.4	547.3
165°	558.7	559.3	559.8	560.3	560.9	560.8	560.1	559.3	558.5	557.8	557.8
167.5°	567.1	567.7	568.3	568.9	569.5	569.4	568.6	567.8	567.1	566.3	566.3
170°	571.5	572.1	572.8	573.4	574.1	574.0	573.3	572.6	571.8	571.0	571.1
172.5°	575.1	575.7	576.4	577.0	577.6	577.6	576.9	576.1	575.3	574.5	574.6
175°	578.9	579.5	580.1	580.8	581.5	581.4	580.7	579.9	579.1	578.3	578.6
177.5°	580.7	581.2	581.7	582.2	582.7	582.7	582.2	581.7	581.2	580.7	580.8
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



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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°	18.3	17.8	17.4	18.0	16.2	15.9	13.5	11.7	11.5	11.2	10.4
90°	12.4	10.0	7.6	5.8	4.4	3.1	1.8	0.5	1.8	3.1	4.4
92.5°	14.5	13.9	13.3	12.6	11.6	10.7	9.7	8.8	9.7	10.7	11.6
95°	31.0	30.7	30.6	29.9	28.8	27.7	26.6	25.6	26.6	27.7	28.8
97.5°	52.0	51.6	51.1	50.5	49.5	48.6	47.6	46.7	47.6	48.6	49.5
100°	67.1	66.8	66.5	65.9	65.0	64.1	63.2	62.3	63.2	64.1	65.0
102.5°	83.0	82.7	82.2	81.6	80.9	80.2	79.6	78.9	79.6	80.2	80.9
105°	107.5	107.4	107.1	106.9	106.5	106.2	105.9	105.6	105.9	106.2	106.5
107.5°	134.7	134.7	134.7	134.4	133.9	133.5	132.9	132.5	132.9	133.5	133.9
110°	152.7	152.7	152.7	152.4	151.7	151.0	150.4	149.7	150.4	151.0	151.7





TEST NUMBER: P331430-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.3	171.4	171.5	171.3	170.6	169.9	169.3	168.6	169.3	169.9	170.6
115°	198.8	199.0	199.2	199.0	198.4	197.7	197.1	196.4	197.1	197.7	198.4
117.5°	226.4	227.1	227.7	227.6	226.7	225.8	225.0	224.1	225.0	225.8	226.7
120°	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5	243.4	244.3	245.1
122.5°	262.6	263.2	263.8	263.6	262.6	261.6	260.5	259.4	260.5	261.6	262.6
125°	289.4	289.6	290.0	289.6	288.7	287.7	286.7	285.8	286.7	287.7	288.7
127.5°	316.0	316.4	316.8	316.3	315.1	313.8	312.6	311.3	312.6	313.8	315.1
130°	333.3	333.6	333.7	333.1	331.7	330.3	328.9	327.5	328.9	330.3	331.7
132.5°	350.9	350.9	350.8	350.2	349.0	347.8	346.7	345.5	346.7	347.8	349.0
135°	375.7	375.4	375.2	374.5	373.3	372.1	370.9	369.7	370.9	372.1	373.3
137.5°	400.3	400.0	399.7	399.1	398.1	397.1	396.1	395.1	396.1	397.1	398.1
140°	416.2	415.7	415.2	414.4	413.4	412.4	411.5	410.4	411.5	412.4	413.4
142.5°	431.5	431.2	430.8	430.1	429.1	428.2	427.1	426.2	427.1	428.2	429.1
145°	453.8	453.1	452.5	451.9	451.1	450.3	449.5	448.8	449.5	450.3	451.1
147.5°	474.1	473.6	473.2	472.5	471.7	470.7	469.8	468.9	469.8	470.7	471.7
150°	486.6	486.2	485.8	485.3	484.6	484.0	483.3	482.7	483.3	484.0	484.6
152.5°	499.0	498.5	498.0	497.4	496.8	496.1	495.5	494.8	495.5	496.1	496.8
155°	515.4	515.1	514.7	514.4	514.0	513.8	513.4	513.1	513.4	513.8	514.0
157.5°	530.2	529.9	529.8	529.6	529.3	529.1	528.9	528.7	528.9	529.1	529.3
160°	539.3	539.2	539.2	539.0	538.7	538.6	538.3	538.1	538.3	538.6	538.7
162.5°	547.3	547.1	547.0	546.9	546.9	546.8	546.8	546.7	546.8	546.8	546.9
165°	557.8	557.8	557.8	557.8	557.9	558.0	558.1	558.3	558.1	558.0	557.9
167.5°	566.4	566.4	566.4	566.5	566.9	567.2	567.6	567.8	567.6	567.2	566.9
170°	571.2	571.4	571.4	571.7	572.0	572.3	572.7	573.0	572.7	572.3	572.0
172.5°	574.8	574.9	575.0	575.2	575.5	575.8	576.2	576.5	576.2	575.8	575.5
175°	578.9	579.0	579.3	579.5	579.9	580.1	580.5	580.8	580.5	580.1	579.9
177.5°	581.0	581.2	581.3	581.5	581.8	582.0	582.3	582.6	582.3	582.0	581.8
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331430-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1

**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	10.0	9.9	10.4	10.3	10.3	9.7	9.6	9.6	8.5	8.5
90°	5.8	7.6	10.0	12.4	14.8	17.2	17.0	16.8	16.5	16.3	16.3
92.5°	12.6	13.3	13.9	14.5	15.1	15.6	15.7	15.7	15.8	15.8	15.8
95°	29.9	30.6	30.7	31.0	31.2	31.4	31.4	31.4	31.4	31.4	31.3
97.5°	50.5	51.1	51.6	52.0	52.4	52.9	52.9	52.9	52.9	52.9	52.8
100°	65.9	66.5	66.8	67.1	67.4	67.8	67.8	67.8	67.8	67.8	67.7
102.5°	81.6	82.2	82.7	83.0	83.4	83.9	83.9	84.0	84.1	84.2	84.2
105°	106.9	107.1	107.4	107.5	107.8	108.1	108.2	108.5	108.7	108.9	109.0
107.5°	134.4	134.7	134.7	134.7	134.7	134.7	134.7	134.8	134.9	135.0	134.7
110°	152.4	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.6



TEST NUMBER: P331430-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.3	171.5	171.4	171.3	171.3	171.2	170.9	170.7	170.4	170.1	169.9
115°	199.0	199.2	199.0	198.8	198.5	198.4	198.3	198.1	198.0	197.9	197.7
117.5°	227.6	227.7	227.1	226.4	225.8	225.2	225.0	224.7	224.5	224.2	223.9
120°	246.1	246.1	245.1	244.3	243.4	242.5	242.5	242.5	242.5	242.5	242.4
122.5°	263.6	263.8	263.2	262.6	262.0	261.4	261.1	260.9	260.6	260.4	260.1
125°	289.6	290.0	289.6	289.4	289.0	288.7	288.3	288.0	287.7	287.4	287.1
127.5°	316.3	316.8	316.4	316.0	315.6	315.2	314.8	314.4	314.0	313.7	313.2
130°	333.1	333.7	333.6	333.3	333.1	332.9	332.7	332.4	332.3	332.0	331.7
132.5°	350.2	350.8	350.9	350.9	350.9	350.9	350.5	350.0	349.5	349.0	348.6
135°	374.5	375.2	375.4	375.7	375.9	376.1	376.0	375.9	375.7	375.7	375.4
137.5°	399.1	399.7	400.0	400.3	400.5	400.8	400.7	400.6	400.5	400.5	400.2
140°	414.4	415.2	415.7	416.2	416.8	417.3	417.3	417.3	417.3	417.3	417.2
142.5°	430.1	430.8	431.2	431.5	431.9	432.2	432.3	432.4	432.5	432.6	432.4
145°	451.9	452.5	453.1	453.8	454.5	455.1	455.2	455.4	455.5	455.6	455.4
147.5°	472.5	473.2	473.6	474.1	474.5	475.0	475.2	475.4	475.7	476.0	475.9
150°	485.3	485.8	486.2	486.6	487.1	487.6	487.8	488.2	488.5	488.9	488.9
152.5°	497.4	498.0	498.5	499.0	499.6	500.2	500.5	500.9	501.4	501.8	501.8
155°	514.4	514.7	515.1	515.4	515.7	516.0	516.6	517.1	517.6	518.2	518.3
157.5°	529.6	529.8	529.9	530.2	530.4	530.5	531.3	532.0	532.8	533.6	533.6
160°	539.0	539.2	539.2	539.3	539.5	539.6	540.3	540.9	541.6	542.2	542.3
162.5°	546.9	547.0	547.1	547.3	547.3	547.4	548.2	548.9	549.7	550.4	550.5
165°	557.8	557.8	557.8	557.8	557.8	557.8	558.5	559.3	560.1	560.8	560.9
167.5°	566.5	566.4	566.4	566.4	566.3	566.3	567.1	567.8	568.6	569.4	569.5
170°	571.7	571.4	571.4	571.2	571.1	571.0	571.8	572.6	573.3	574.0	574.1
172.5°	575.2	575.0	574.9	574.8	574.6	574.5	575.3	576.1	576.9	577.6	577.6
175°	579.5	579.3	579.0	578.9	578.6	578.3	579.1	579.9	580.7	581.4	581.5
177.5°	581.5	581.3	581.2	581.0	580.8	580.7	581.2	581.7	582.2	582.7	582.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331430-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1

**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	8.1	7.6	8.1	8.0	8.5	8.5	8.5	9.6	9.6
90°	16.4	16.4	16.6	16.7	16.6	16.4	16.4	16.3	16.3	16.5	16.8
92.5°	15.8	15.8	15.9	15.9	15.9	15.8	15.8	15.8	15.8	15.8	15.7
95°	31.1	30.9	30.7	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.4
97.5°	52.8	52.8	52.8	52.7	52.8	52.8	52.8	52.8	52.9	52.9	52.9
100°	67.6	67.5	67.4	67.2	67.4	67.5	67.6	67.7	67.8	67.8	67.8
102.5°	84.1	83.9	83.9	83.8	83.9	83.9	84.1	84.2	84.2	84.1	84.0
105°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	108.9	108.7	108.5
107.5°	134.2	133.8	133.3	132.8	133.3	133.8	134.2	134.7	135.0	134.9	134.8
110°	152.2	151.9	151.5	151.2	151.5	151.9	152.2	152.6	152.7	152.7	152.7



TEST NUMBER: P331430-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	169.6	169.4	169.1	168.9	169.1	169.4	169.6	169.9	170.1	170.4	170.7
115°	197.3	197.1	196.7	196.4	196.7	197.1	197.3	197.7	197.9	198.0	198.1
117.5°	223.6	223.3	222.9	222.6	222.9	223.3	223.6	223.9	224.2	224.5	224.7
120°	242.0	241.8	241.4	241.1	241.4	241.8	242.0	242.4	242.5	242.5	242.5
122.5°	259.8	259.6	259.4	259.2	259.4	259.6	259.8	260.1	260.4	260.6	260.9
125°	287.1	287.0	286.8	286.7	286.8	287.0	287.1	287.1	287.4	287.7	288.0
127.5°	312.9	312.5	312.2	311.9	312.2	312.5	312.9	313.2	313.7	314.0	314.4
130°	331.2	330.8	330.4	329.9	330.4	330.8	331.2	331.7	332.0	332.3	332.4
132.5°	348.3	347.9	347.6	347.2	347.6	347.9	348.3	348.6	349.0	349.5	350.0
135°	375.1	374.8	374.4	374.1	374.4	374.8	375.1	375.4	375.7	375.7	375.9
137.5°	399.8	399.3	398.9	398.5	398.9	399.3	399.8	400.2	400.5	400.5	400.6
140°	416.6	416.2	415.8	415.3	415.8	416.2	416.6	417.2	417.3	417.3	417.3
142.5°	432.0	431.5	431.1	430.7	431.1	431.5	432.0	432.4	432.6	432.5	432.4
145°	455.0	454.5	454.1	453.7	454.1	454.5	455.0	455.4	455.6	455.5	455.4
147.5°	475.4	475.0	474.6	474.2	474.6	475.0	475.4	475.9	476.0	475.7	475.4
150°	488.5	488.2	487.8	487.6	487.8	488.2	488.5	488.9	488.9	488.5	488.2
152.5°	501.4	500.9	500.5	500.2	500.5	500.9	501.4	501.8	501.8	501.4	500.9
155°	518.0	517.6	517.3	517.0	517.3	517.6	518.0	518.3	518.2	517.6	517.1
157.5°	533.1	532.6	532.1	531.5	532.1	532.6	533.1	533.6	533.6	532.8	532.0
160°	541.9	541.5	541.0	540.5	541.0	541.5	541.9	542.3	542.2	541.6	540.9
162.5°	550.0	549.5	549.0	548.5	549.0	549.5	550.0	550.5	550.4	549.7	548.9
165°	560.3	559.8	559.3	558.7	559.3	559.8	560.3	560.9	560.8	560.1	559.3
167.5°	568.9	568.3	567.7	567.1	567.7	568.3	568.9	569.5	569.4	568.6	567.8
170°	573.4	572.8	572.1	571.5	572.1	572.8	573.4	574.1	574.0	573.3	572.6
172.5°	577.0	576.4	575.7	575.1	575.7	576.4	577.0	577.6	577.6	576.9	576.1
175°	580.8	580.1	579.5	578.9	579.5	580.1	580.8	581.5	581.4	580.7	579.9
177.5°	582.2	581.7	581.2	580.7	581.2	581.7	582.2	582.7	582.7	582.2	581.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331430-935

CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1

**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°	9.7	10.3	10.3	10.4	9.9	10.0	10.2	10.4	11.2	11.5	11.7
90°	17.0	17.2	14.8	12.4	10.0	7.6	5.8	4.4	3.1	1.8	0.5
92.5°	15.7	15.6	15.1	14.5	13.9	13.3	12.6	11.6	10.7	9.7	8.8
95°	31.4	31.4	31.2	31.0	30.7	30.6	29.9	28.8	27.7	26.6	25.6
97.5°	52.9	52.9	52.4	52.0	51.6	51.1	50.5	49.5	48.6	47.6	46.7
100°	67.8	67.8	67.4	67.1	66.8	66.5	65.9	65.0	64.1	63.2	62.3
102.5°	83.9	83.9	83.4	83.0	82.7	82.2	81.6	80.9	80.2	79.6	78.9
105°	108.2	108.1	107.8	107.5	107.4	107.1	106.9	106.5	106.2	105.9	105.6
107.5°	134.7	134.7	134.7	134.7	134.7	134.7	134.4	133.9	133.5	132.9	132.5
110°	152.7	152.7	152.7	152.7	152.7	152.7	152.4	151.7	151.0	150.4	149.7



TEST NUMBER: P331430-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	170.9	171.2	171.3	171.3	171.4	171.5	171.3	170.6	169.9	169.3	168.6
115°	198.3	198.4	198.5	198.8	199.0	199.2	199.0	198.4	197.7	197.1	196.4
117.5°	225.0	225.2	225.8	226.4	227.1	227.7	227.6	226.7	225.8	225.0	224.1
120°	242.5	242.5	243.4	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5
122.5°	261.1	261.4	262.0	262.6	263.2	263.8	263.6	262.6	261.6	260.5	259.4
125°	288.3	288.7	289.0	289.4	289.6	290.0	289.6	288.7	287.7	286.7	285.8
127.5°	314.8	315.2	315.6	316.0	316.4	316.8	316.3	315.1	313.8	312.6	311.3
130°	332.7	332.9	333.1	333.3	333.6	333.7	333.1	331.7	330.3	328.9	327.5
132.5°	350.5	350.9	350.9	350.9	350.9	350.8	350.2	349.0	347.8	346.7	345.5
135°	376.0	376.1	375.9	375.7	375.4	375.2	374.5	373.3	372.1	370.9	369.7
137.5°	400.7	400.8	400.5	400.3	400.0	399.7	399.1	398.1	397.1	396.1	395.1
140°	417.3	417.3	416.8	416.2	415.7	415.2	414.4	413.4	412.4	411.5	410.4
142.5°	432.3	432.2	431.9	431.5	431.2	430.8	430.1	429.1	428.2	427.1	426.2
145°	455.2	455.1	454.5	453.8	453.1	452.5	451.9	451.1	450.3	449.5	448.8
147.5°	475.2	475.0	474.5	474.1	473.6	473.2	472.5	471.7	470.7	469.8	468.9
150°	487.8	487.6	487.1	486.6	486.2	485.8	485.3	484.6	484.0	483.3	482.7
152.5°	500.5	500.2	499.6	499.0	498.5	498.0	497.4	496.8	496.1	495.5	494.8
155°	516.6	516.0	515.7	515.4	515.1	514.7	514.4	514.0	513.8	513.4	513.1
157.5°	531.3	530.5	530.4	530.2	529.9	529.8	529.6	529.3	529.1	528.9	528.7
160°	540.3	539.6	539.5	539.3	539.2	539.2	539.0	538.7	538.6	538.3	538.1
162.5°	548.2	547.4	547.3	547.3	547.1	547.0	546.9	546.9	546.8	546.8	546.7
165°	558.5	557.8	557.8	557.8	557.8	557.8	557.8	557.9	558.0	558.1	558.3
167.5°	567.1	566.3	566.3	566.4	566.4	566.4	566.5	566.9	567.2	567.6	567.8
170°	571.8	571.0	571.1	571.2	571.4	571.4	571.7	572.0	572.3	572.7	573.0
172.5°	575.3	574.5	574.6	574.8	574.9	575.0	575.2	575.5	575.8	576.2	576.5
175°	579.1	578.3	578.6	578.9	579.0	579.3	579.5	579.9	580.1	580.5	580.8
177.5°	581.2	580.7	580.8	581.0	581.2	581.3	581.5	581.8	582.0	582.3	582.6
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331430-935  
 CATALOG NUMBER: SA2XXDIP-C1005D530U935-4F0-1E-UDD-A1

**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°	13.5	15.9	16.2	18.0	17.4	17.8	18.3	18.3	18.3	17.7	17.0
90°	1.8	3.1	4.4	5.8	7.6	10.0	12.4	14.8	17.2	17.0	16.8
92.5°	9.7	10.7	11.6	12.6	13.3	13.9	14.5	15.1	15.6	15.7	15.7
95°	26.6	27.7	28.8	29.9	30.6	30.7	31.0	31.2	31.4	31.4	31.4
97.5°	47.6	48.6	49.5	50.5	51.1	51.6	52.0	52.4	52.9	52.9	52.9
100°	63.2	64.1	65.0	65.9	66.5	66.8	67.1	67.4	67.8	67.8	67.8
102.5°	79.6	80.2	80.9	81.6	82.2	82.7	83.0	83.4	83.9	83.9	84.0
105°	105.9	106.2	106.5	106.9	107.1	107.4	107.5	107.8	108.1	108.2	108.5
107.5°	132.9	133.5	133.9	134.4	134.7	134.7	134.7	134.7	134.7	134.7	134.8
110°	150.4	151.0	151.7	152.4	152.7	152.7	152.7	152.7	152.7	152.7	152.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.3	169.9	170.6	171.3	171.5	171.4	171.3	171.3	171.2	170.9	170.7
115°	197.1	197.7	198.4	199.0	199.2	199.0	198.8	198.5	198.4	198.3	198.1
117.5°	225.0	225.8	226.7	227.6	227.7	227.1	226.4	225.8	225.2	225.0	224.7
120°	243.4	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5	242.5	242.5
122.5°	260.5	261.6	262.6	263.6	263.8	263.2	262.6	262.0	261.4	261.1	260.9
125°	286.7	287.7	288.7	289.6	290.0	289.6	289.4	289.0	288.7	288.3	288.0
127.5°	312.6	313.8	315.1	316.3	316.8	316.4	316.0	315.6	315.2	314.8	314.4
130°	328.9	330.3	331.7	333.1	333.7	333.6	333.3	333.1	332.9	332.7	332.4
132.5°	346.7	347.8	349.0	350.2	350.8	350.9	350.9	350.9	350.9	350.5	350.0
135°	370.9	372.1	373.3	374.5	375.2	375.4	375.7	375.9	376.1	376.0	375.9
137.5°	396.1	397.1	398.1	399.1	399.7	400.0	400.3	400.5	400.8	400.7	400.6
140°	411.5	412.4	413.4	414.4	415.2	415.7	416.2	416.8	417.3	417.3	417.3
142.5°	427.1	428.2	429.1	430.1	430.8	431.2	431.5	431.9	432.2	432.3	432.4
145°	449.5	450.3	451.1	451.9	452.5	453.1	453.8	454.5	455.1	455.2	455.4
147.5°	469.8	470.7	471.7	472.5	473.2	473.6	474.1	474.5	475.0	475.2	475.4
150°	483.3	484.0	484.6	485.3	485.8	486.2	486.6	487.1	487.6	487.8	488.2
152.5°	495.5	496.1	496.8	497.4	498.0	498.5	499.0	499.6	500.2	500.5	500.9
155°	513.4	513.8	514.0	514.4	514.7	515.1	515.4	515.7	516.0	516.6	517.1
157.5°	528.9	529.1	529.3	529.6	529.8	529.9	530.2	530.4	530.5	531.3	532.0
160°	538.3	538.6	538.7	539.0	539.2	539.2	539.3	539.5	539.6	540.3	540.9
162.5°	546.8	546.8	546.9	546.9	547.0	547.1	547.3	547.3	547.4	548.2	548.9
165°	558.1	558.0	557.9	557.8	557.8	557.8	557.8	557.8	557.8	558.5	559.3
167.5°	567.6	567.2	566.9	566.5	566.4	566.4	566.4	566.3	566.3	567.1	567.8
170°	572.7	572.3	572.0	571.7	571.4	571.4	571.2	571.1	571.0	571.8	572.6
172.5°	576.2	575.8	575.5	575.2	575.0	574.9	574.8	574.6	574.5	575.3	576.1
175°	580.5	580.1	579.9	579.5	579.3	579.0	578.9	578.6	578.3	579.1	579.9
177.5°	582.3	582.0	581.8	581.5	581.3	581.2	581.0	580.8	580.7	581.2	581.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



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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°	17.6	17.5	17.0	17.0	17.6	17.0	17.0
90°	16.5	16.3	16.3	16.4	16.4	16.6	16.7
92.5°	15.8	15.8	15.8	15.8	15.8	15.9	15.9
95°	31.4	31.4	31.3	31.1	30.9	30.7	30.5
97.5°	52.9	52.9	52.8	52.8	52.8	52.8	52.7
100°	67.8	67.8	67.7	67.6	67.5	67.4	67.2
102.5°	84.1	84.2	84.2	84.1	83.9	83.9	83.8
105°	108.7	108.9	109.0	109.0	109.0	109.0	109.0
107.5°	134.9	135.0	134.7	134.2	133.8	133.3	132.8
110°	152.7	152.7	152.6	152.2	151.9	151.5	151.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.4	170.1	169.9	169.6	169.4	169.1	168.9
115°	198.0	197.9	197.7	197.3	197.1	196.7	196.4
117.5°	224.5	224.2	223.9	223.6	223.3	222.9	222.6
120°	242.5	242.5	242.4	242.0	241.8	241.4	241.1
122.5°	260.6	260.4	260.1	259.8	259.6	259.4	259.2
125°	287.7	287.4	287.1	287.1	287.0	286.8	286.7
127.5°	314.0	313.7	313.2	312.9	312.5	312.2	311.9
130°	332.3	332.0	331.7	331.2	330.8	330.4	329.9
132.5°	349.5	349.0	348.6	348.3	347.9	347.6	347.2
135°	375.7	375.7	375.4	375.1	374.8	374.4	374.1
137.5°	400.5	400.5	400.2	399.8	399.3	398.9	398.5
140°	417.3	417.3	417.2	416.6	416.2	415.8	415.3
142.5°	432.5	432.6	432.4	432.0	431.5	431.1	430.7
145°	455.5	455.6	455.4	455.0	454.5	454.1	453.7
147.5°	475.7	476.0	475.9	475.4	475.0	474.6	474.2
150°	488.5	488.9	488.9	488.5	488.2	487.8	487.6
152.5°	501.4	501.8	501.8	501.4	500.9	500.5	500.2
155°	517.6	518.2	518.3	518.0	517.6	517.3	517.0
157.5°	532.8	533.6	533.6	533.1	532.6	532.1	531.5
160°	541.6	542.2	542.3	541.9	541.5	541.0	540.5
162.5°	549.7	550.4	550.5	550.0	549.5	549.0	548.5
165°	560.1	560.8	560.9	560.3	559.8	559.3	558.7
167.5°	568.6	569.4	569.5	568.9	568.3	567.7	567.1
170°	573.3	574.0	574.1	573.4	572.8	572.1	571.5
172.5°	576.9	577.6	577.6	577.0	576.4	575.7	575.1
175°	580.7	581.4	581.5	580.8	580.1	579.5	578.9
177.5°	582.2	582.7	582.7	582.2	581.7	581.2	580.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8

(END OF REPORT)