

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331585-935

Luminaire Tested: **S122DIW-S1005D435U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331585-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S1005D435U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5279.4 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

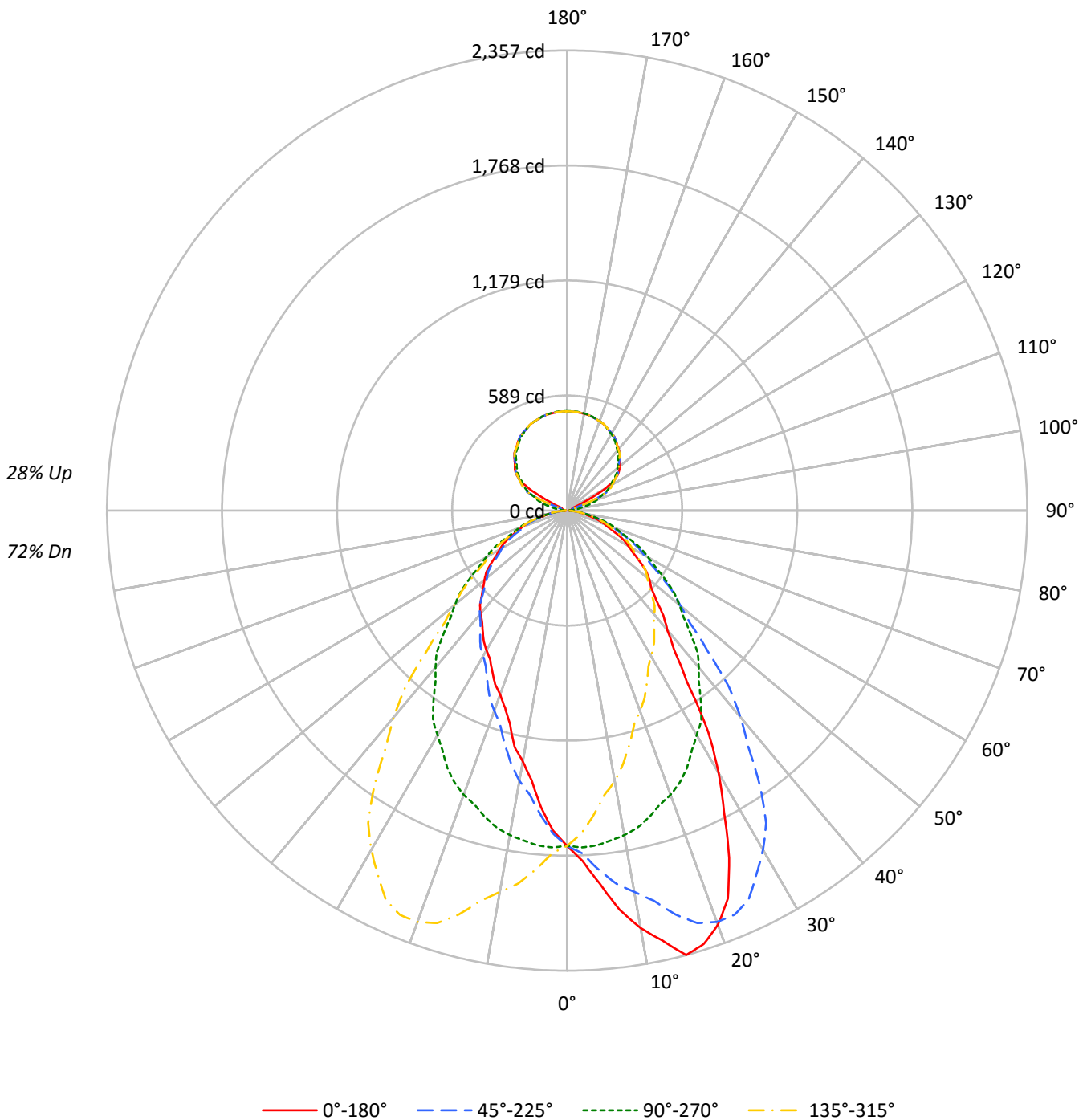
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**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	3.1
10°-20°	475.3	9.0
20°-30°	689.9	13.1
30°-40°	728.0	13.8
40°-50°	644.6	12.2
50°-60°	514.4	9.7
60°-70°	349.6	6.6
70°-80°	179.3	3.4
80°-90°	44.5	0.8
90°-100°	17.0	0.3
100°-110°	62.2	1.2
110°-120°	166.3	3.1
120°-130°	274.5	5.2
130°-140°	291.9	5.5
140°-150°	271.3	5.1
150°-160°	218.2	4.1
160°-170°	140.6	2.7
170°-180°	48.4	0.9
0°-30°	1328.7	25.2
0°-40°	2056.7	39.0
0°-60°	3215.7	60.9
0°-90°	3789.0	71.8
90°-120°	245.5	4.6
90°-150°	1083.3	20.5
90°-180°	1490.0	28.2
0°-180°	5279.4	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°	10	0	10	0	10	6
95°	16	24	16	24	16	15
105°	28	112	28	112	28	29
115°	30	212	30	212	30	76
125°	315	299	315	299	315	272
135°	382	370	382	370	382	295
145°	436	430	436	430	436	273
155°	473	473	473	473	473	218
165°	497	498	497	498	497	140
175°	507	510	507	510	507	48
180°	509	509	509	509	509	



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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°	15.7	15.7	16.2	15.6	15.6	16.0	15.9	15.3	15.8	16.3	16.6
90°	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2	7.7	7.3	6.7
92.5°	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0	8.8	8.5	8.2
95°	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2	14.7	14.4	13.8
97.5°	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9	19.5	19.2	17.9
100°	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3	21.6	21.0	19.5
102.5°	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2	22.4	21.5	33.2
105°	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3	23.3	22.5	44.8
107.5°	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6	30.5	31.4	58.2
110°	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0	56.2	64.4	88.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8	132.6	162.5	168.2
115°	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4	189.2	227.0	225.0
117.5°	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2	242.4	251.5	250.1
120°	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7	270.7	269.8	268.3
122.5°	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3	287.7	287.1	285.5
125°	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1	311.5	311.0	309.4
127.5°	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2	333.3	332.4	331.3
130°	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1	347.2	346.3	345.4
132.5°	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7	360.9	360.2	359.2
135°	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1	380.2	379.4	378.7
137.5°	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1	398.2	397.4	396.6
140°	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7	409.9	409.2	408.3
142.5°	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5	420.8	420.1	419.0
145°	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5	435.9	435.3	433.9
147.5°	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6	449.2	448.8	447.4
150°	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7	457.2	456.7	455.4
152.5°	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0	464.5	464.1	462.8
155°	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0	474.5	474.0	473.0
157.5°	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4	482.8	482.2	481.6
160°	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2	487.8	487.2	486.7
162.5°	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8	492.2	491.6	491.2
165°	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3	497.7	497.1	497.0
167.5°	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0	502.4	501.8	501.6
170°	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3	504.7	504.2	504.0
172.5°	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0	506.5	505.9	505.8
175°	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0	508.4	507.8	507.6
177.5°	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2	508.8	508.2	508.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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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°	17.0	16.9	16.8	17.7	15.9	15.8	13.4	11.7	11.4	11.0	10.1
90°	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3	1.3	2.2	3.1
92.5°	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4	7.3	7.2	7.1
95°	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9	21.2	18.5	15.8
97.5°	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4	39.9	32.3	24.6
100°	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2	53.9	42.7	31.5
102.5°	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6	82.2	79.8	77.5
105°	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8	114.3	116.8	119.2
107.5°	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0	145.0	147.0	149.0
110°	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0	164.7	166.4	168.2





TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8	183.4	184.9	186.4
115°	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6	213.0	214.4	215.8
117.5°	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2	239.7	241.3	242.8
120°	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6	258.8	260.0	261.3
122.5°	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1	275.3	276.6	277.9
125°	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2	300.2	301.4	302.4
127.5°	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9	323.1	324.3	325.5
130°	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4	337.7	339.0	340.3
132.5°	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1	352.1	353.3	354.4
135°	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2	371.5	372.8	374.1
137.5°	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6	390.5	391.4	392.4
140°	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3	402.9	403.6	404.2
142.5°	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8	413.5	414.0	414.6
145°	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5	429.4	429.3	429.2
147.5°	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9	443.7	443.3	443.1
150°	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4	452.8	452.2	451.7
152.5°	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3	460.7	460.0	459.4
155°	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9	472.2	471.4	470.7
157.5°	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9	481.3	480.7	480.1
160°	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	486.7	486.3	485.8
162.5°	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0	491.5	490.9	490.5
165°	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3	497.8	497.3	496.8
167.5°	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0	502.5	502.0	501.5
170°	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7	505.1	504.6	504.2
172.5°	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4	507.0	506.4	505.9
175°	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7	509.1	508.5	508.0
177.5°	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1	509.6	509.1	508.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**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°	9.7	9.4	9.0	9.1	8.7	8.4	7.9	8.0	8.1	7.1	7.1
90°	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2	8.6	9.0	9.3
92.5°	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0	9.2	9.4	9.6
95°	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2	15.6	16.0	16.2
97.5°	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9	20.2	20.5	20.8
100°	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3	22.9	23.6	24.0
102.5°	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2	24.1	25.0	25.5
105°	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3	25.1	26.1	26.7
107.5°	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6	28.7	27.7	27.5
110°	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0	39.9	31.7	27.7



TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8	72.9	43.1	28.3
115°	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4	113.5	75.6	53.7
117.5°	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2	224.0	214.8	200.6
120°	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7	272.7	273.7	268.6
122.5°	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3	288.9	289.5	288.7
125°	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1	312.7	313.2	313.7
127.5°	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2	334.9	335.8	336.2
130°	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1	349.0	349.9	350.3
132.5°	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7	362.4	363.2	363.5
135°	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1	381.9	382.7	383.0
137.5°	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1	399.8	400.6	400.9
140°	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7	411.5	412.2	412.3
142.5°	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5	422.1	422.8	422.9
145°	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5	437.0	437.6	437.7
147.5°	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6	450.0	450.5	450.5
150°	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7	458.1	458.7	458.7
152.5°	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0	465.5	466.1	466.0
155°	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0	475.4	476.0	475.9
157.5°	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4	483.9	484.5	484.4
160°	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2	488.7	489.2	489.1
162.5°	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8	493.4	493.9	493.8
165°	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3	498.9	499.5	499.5
167.5°	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0	503.5	504.1	504.0
170°	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3	505.9	506.4	506.4
172.5°	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0	507.6	508.2	508.2
175°	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0	509.5	510.1	510.1
177.5°	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2	509.6	510.1	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**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°	7.1	6.6	6.7	6.2	6.7	6.6	7.1	7.1	7.1	8.1	8.0
90°	9.5	9.6	9.8	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2
92.5°	9.6	9.7	9.8	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0
95°	16.1	16.0	15.9	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2
97.5°	20.8	20.9	21.0	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9
100°	24.2	24.4	24.5	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3
102.5°	25.7	26.0	26.2	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2
105°	26.9	27.3	27.6	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3
107.5°	27.8	28.2	28.4	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6
110°	28.1	28.4	28.8	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0



TEST NUMBER: P331585-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	28.6	28.8	29.1	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8
115°	47.9	41.9	36.1	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4
117.5°	181.2	161.9	142.6	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2
120°	257.6	246.6	235.5	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7
122.5°	286.5	284.4	282.2	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3
125°	313.9	314.2	314.4	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1
127.5°	336.3	336.3	336.4	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2
130°	350.3	350.2	350.1	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1
132.5°	363.4	363.3	363.3	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7
135°	382.9	382.7	382.5	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1
137.5°	400.6	400.4	400.1	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1
140°	411.9	411.5	411.1	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7
142.5°	422.5	422.1	421.7	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5
145°	437.3	436.9	436.5	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5
147.5°	450.1	449.8	449.4	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6
150°	458.3	457.9	457.4	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7
152.5°	465.5	464.9	464.3	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0
155°	475.2	474.6	473.9	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0
157.5°	483.8	483.1	482.5	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4
160°	488.6	488.0	487.4	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2
162.5°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8
165°	498.9	498.3	497.7	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3
167.5°	503.3	502.6	501.8	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0
170°	505.7	504.9	504.2	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3
172.5°	507.4	506.7	505.9	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0
175°	509.2	508.4	507.6	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0
177.5°	509.5	508.9	508.2	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**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°	7.9	8.4	8.7	9.1	9.0	9.4	9.7	10.1	11.0	11.4	11.7
90°	7.7	7.3	6.7	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3
92.5°	8.8	8.5	8.2	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4
95°	14.7	14.4	13.8	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9
97.5°	19.5	19.2	17.9	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4
100°	21.6	21.0	19.5	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2
102.5°	22.4	21.5	33.2	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6
105°	23.3	22.5	44.8	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8
107.5°	30.5	31.4	58.2	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0
110°	56.2	64.4	88.0	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0



TEST NUMBER: P331585-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.6	162.5	168.2	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8
115°	189.2	227.0	225.0	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6
117.5°	242.4	251.5	250.1	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2
120°	270.7	269.8	268.3	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6
122.5°	287.7	287.1	285.5	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1
125°	311.5	311.0	309.4	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2
127.5°	333.3	332.4	331.3	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9
130°	347.2	346.3	345.4	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4
132.5°	360.9	360.2	359.2	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1
135°	380.2	379.4	378.7	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2
137.5°	398.2	397.4	396.6	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6
140°	409.9	409.2	408.3	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3
142.5°	420.8	420.1	419.0	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8
145°	435.9	435.3	433.9	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5
147.5°	449.2	448.8	447.4	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9
150°	457.2	456.7	455.4	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4
152.5°	464.5	464.1	462.8	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3
155°	474.5	474.0	473.0	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9
157.5°	482.8	482.2	481.6	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9
160°	487.8	487.2	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2
162.5°	492.2	491.6	491.2	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0
165°	497.7	497.1	497.0	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3
167.5°	502.4	501.8	501.6	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0
170°	504.7	504.2	504.0	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7
172.5°	506.5	505.9	505.8	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4
175°	508.4	507.8	507.6	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7
177.5°	508.8	508.2	508.2	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331585-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-A

**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°	13.4	15.8	15.9	17.7	16.8	16.9	17.0	16.6	16.3	15.8	15.3
90°	1.3	2.2	3.1	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2
92.5°	7.3	7.2	7.1	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0
95°	21.2	18.5	15.8	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2
97.5°	39.9	32.3	24.6	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9
100°	53.9	42.7	31.5	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3
102.5°	82.2	79.8	77.5	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2
105°	114.3	116.8	119.2	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3
107.5°	145.0	147.0	149.0	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6
110°	164.7	166.4	168.2	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.4	184.9	186.4	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8
115°	213.0	214.4	215.8	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4
117.5°	239.7	241.3	242.8	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2
120°	258.8	260.0	261.3	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7
122.5°	275.3	276.6	277.9	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3
125°	300.2	301.4	302.4	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1
127.5°	323.1	324.3	325.5	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2
130°	337.7	339.0	340.3	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1
132.5°	352.1	353.3	354.4	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7
135°	371.5	372.8	374.1	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1
137.5°	390.5	391.4	392.4	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1
140°	402.9	403.6	404.2	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7
142.5°	413.5	414.0	414.6	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5
145°	429.4	429.3	429.2	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5
147.5°	443.7	443.3	443.1	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6
150°	452.8	452.2	451.7	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7
152.5°	460.7	460.0	459.4	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0
155°	472.2	471.4	470.7	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0
157.5°	481.3	480.7	480.1	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4
160°	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2
162.5°	491.5	490.9	490.5	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8
165°	497.8	497.3	496.8	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3
167.5°	502.5	502.0	501.5	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0
170°	505.1	504.6	504.2	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3
172.5°	507.0	506.4	505.9	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0
175°	509.1	508.5	508.0	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0
177.5°	509.6	509.1	508.7	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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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°	15.9	16.0	15.6	15.6	16.2	15.7	15.7
90°	8.6	9.0	9.3	9.5	9.6	9.8	9.9
92.5°	9.2	9.4	9.6	9.6	9.7	9.8	9.9
95°	15.6	16.0	16.2	16.1	16.0	15.9	15.8
97.5°	20.2	20.5	20.8	20.8	20.9	21.0	21.1
100°	22.9	23.6	24.0	24.2	24.4	24.5	24.6
102.5°	24.1	25.0	25.5	25.7	26.0	26.2	26.4
105°	25.1	26.1	26.7	26.9	27.3	27.6	28.0
107.5°	28.7	27.7	27.5	27.8	28.2	28.4	28.8
110°	39.9	31.7	27.7	28.1	28.4	28.8	29.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	72.9	43.1	28.3	28.6	28.8	29.1	29.4
115°	113.5	75.6	53.7	47.9	41.9	36.1	30.1
117.5°	224.0	214.8	200.6	181.2	161.9	142.6	123.2
120°	272.7	273.7	268.6	257.6	246.6	235.5	224.5
122.5°	288.9	289.5	288.7	286.5	284.4	282.2	280.1
125°	312.7	313.2	313.7	313.9	314.2	314.4	314.6
127.5°	334.9	335.8	336.2	336.3	336.3	336.4	336.4
130°	349.0	349.9	350.3	350.3	350.2	350.1	350.0
132.5°	362.4	363.2	363.5	363.4	363.3	363.3	363.3
135°	381.9	382.7	383.0	382.9	382.7	382.5	382.4
137.5°	399.8	400.6	400.9	400.6	400.4	400.1	399.8
140°	411.5	412.2	412.3	411.9	411.5	411.1	410.7
142.5°	422.1	422.8	422.9	422.5	422.1	421.7	421.3
145°	437.0	437.6	437.7	437.3	436.9	436.5	436.1
147.5°	450.0	450.5	450.5	450.1	449.8	449.4	449.1
150°	458.1	458.7	458.7	458.3	457.9	457.4	457.1
152.5°	465.5	466.1	466.0	465.5	464.9	464.3	463.8
155°	475.4	476.0	475.9	475.2	474.6	473.9	473.3
157.5°	483.9	484.5	484.4	483.8	483.1	482.5	481.9
160°	488.7	489.2	489.1	488.6	488.0	487.4	486.9
162.5°	493.4	493.9	493.8	493.1	492.4	491.7	491.0
165°	498.9	499.5	499.5	498.9	498.3	497.7	497.1
167.5°	503.5	504.1	504.0	503.3	502.6	501.8	501.1
170°	505.9	506.4	506.4	505.7	504.9	504.2	503.4
172.5°	507.6	508.2	508.2	507.4	506.7	505.9	505.2
175°	509.5	510.1	510.1	509.2	508.4	507.6	506.8
177.5°	509.6	510.1	510.1	509.5	508.9	508.2	507.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6

(END OF REPORT)