

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: P331845-935

Luminaire Tested: **S122RDIW-S1005D435U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331845-935  
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: S122RDIW-S1005D435U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

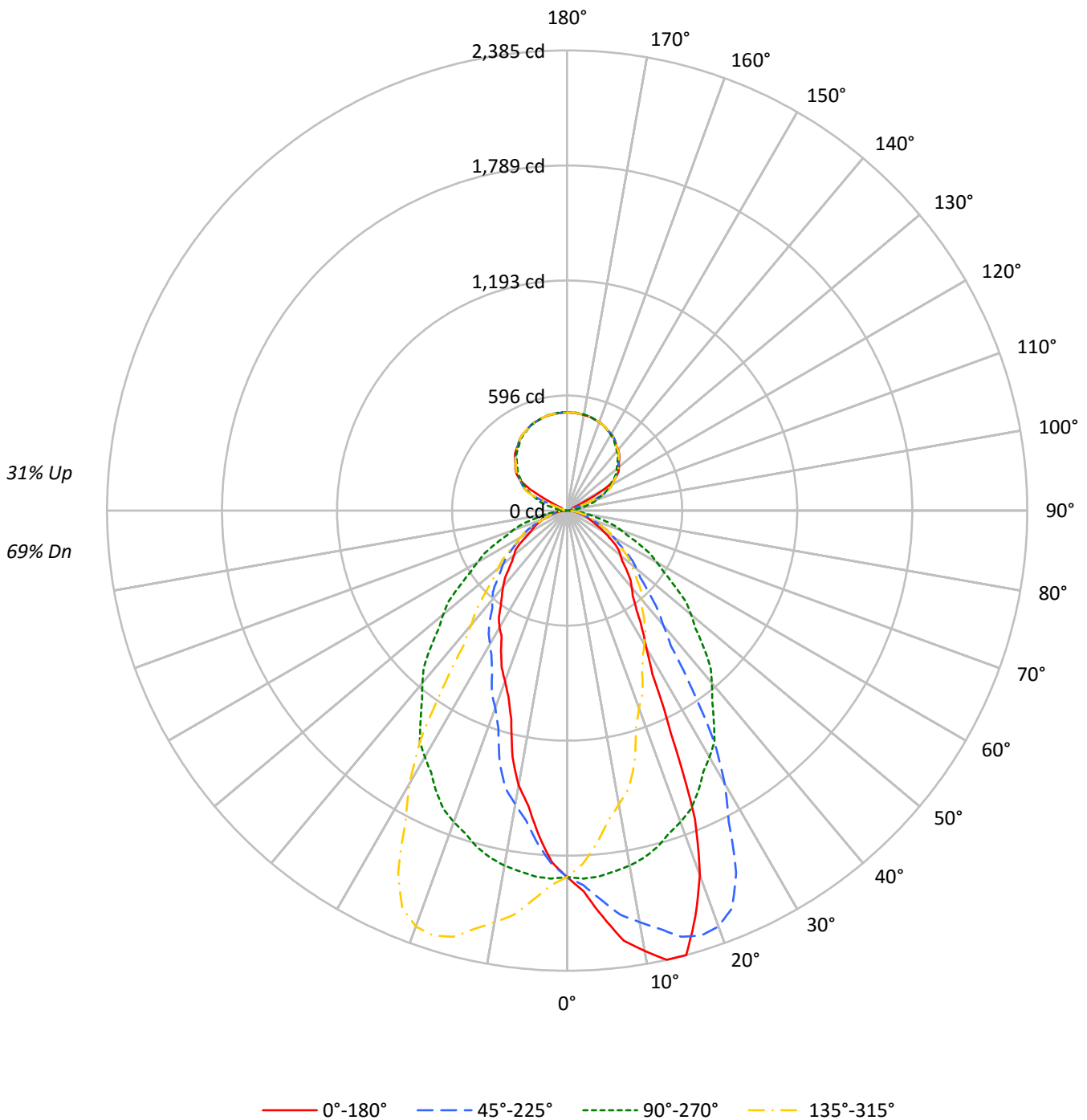
Lumens per Lamp: N/A  
Luminaire Lumens: 4773.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (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	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	103	99	95	92	97	94	91	88	84	82	79	75	73	71	67	65	64	60
2	95	88	82	77	89	83	78	74	75	71	68	67	64	61	60	58	56	52
3	87	78	71	66	82	74	68	63	67	62	58	60	57	53	54	51	49	46
4	81	70	63	57	76	67	60	55	61	55	51	55	50	47	49	46	43	40
5	75	63	56	50	70	60	53	48	55	49	45	50	45	42	45	41	38	36
6	69	58	50	44	65	55	48	43	50	44	40	46	41	37	41	38	35	32
7	64	53	45	39	61	50	43	38	46	40	36	42	37	34	38	34	31	29
8	60	48	41	35	57	46	39	34	42	37	32	39	34	31	36	32	29	26
9	56	44	37	32	53	43	36	31	39	34	30	36	31	28	33	29	26	24
10	53	41	34	29	50	40	33	29	37	31	27	34	29	26	31	27	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	30658	30658	30658	30658
5°	34240	30851	27353	30851
10°	37990	30634	23710	30634
15°	39858	30186	18683	30186
20°	34553	29520	16167	29520
25°	22661	28609	14434	28609
30°	15252	27505	13064	27505
35°	12354	26112	11783	26112
40°	10985	24601	10903	24601
45°	9944	22825	9732	22825
50°	9048	21064	9018	21064
55°	8507	19111	8397	19111
60°	7114	17321	7030	17321
65°	5998	15729	6804	15729
70°	5542	14049	6420	14049
75°	5190	12227	5926	12227
80°	4788	10060	5272	10060
85°	4409	7947	4650	7947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	3.8
10°-20°	501.6	10.5
20°-30°	646.3	13.5
30°-40°	614.2	12.9
40°-50°	526.2	11.0
50°-60°	400.7	8.4
60°-70°	253.3	5.3
70°-80°	126.5	2.6
80°-90°	34.2	0.7
90°-100°	17.0	0.4
100°-110°	62.2	1.3
110°-120°	166.3	3.5
120°-130°	274.5	5.8
130°-140°	291.9	6.1
140°-150°	271.3	5.7
150°-160°	218.2	4.6
160°-170°	140.6	2.9
170°-180°	48.4	1.0
0°-30°	1327.9	27.8
0°-40°	1942.1	40.7
0°-60°	2869.0	60.1
0°-90°	3282.9	68.8
90°-120°	245.5	5.1
90°-150°	1083.3	22.7
90°-180°	1490.0	31.2
0°-180°	4773.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1899	1899	1899	1899	1899	
5°	2113	1904	1688	1904	2113	209
15°	2384	1806	1118	1806	2384	643
25°	1272	1606	810	1606	1272	604
35°	627	1325	598	1325	627	401
45°	436	1000	426	1000	436	337
55°	302	679	298	679	302	265
65°	157	412	178	412	157	160
75°	83	196	95	196	83	88
85°	24	43	25	43	24	26
90°	10	0	10	0	10	5
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°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1975.9	1977.5	1979.1	1975.4	1975.4	1972.2	1965.4	1960.1	1945.3	1943.2	1943.2
5°	2112.6	2111.3	2113.9	2105.4	2093.5	2090.9	2078.4	2061.8	2044.7	2025.6	2021.6
7.5°	2248.6	2246.6	2241.3	2239.9	2230.8	2210.8	2190.6	2169.1	2140.6	2112.8	2098.8
10°	2317.2	2339.0	2325.7	2302.7	2307.3	2276.3	2259.8	2231.5	2207.7	2166.1	2156.9
12.5°	2384.7	2393.3	2389.1	2376.0	2370.1	2348.5	2326.2	2301.6	2257.8	2220.4	2188.0
15°	2384.5	2397.0	2400.3	2396.3	2399.7	2398.3	2386.4	2366.0	2327.7	2286.8	2251.2
17.5°	2208.5	2217.2	2238.8	2253.4	2271.9	2311.0	2330.2	2337.8	2332.1	2308.8	2283.6
20°	2011.0	1996.5	2057.2	2088.3	2114.6	2180.6	2237.3	2259.1	2294.0	2293.4	2286.8
22.5°	1731.3	1734.7	1792.3	1829.1	1906.2	1972.1	2036.8	2118.7	2186.4	2231.1	2257.3
25°	1272.0	1297.2	1354.5	1404.7	1490.5	1613.2	1724.7	1854.0	1976.1	2072.4	2164.1
27.5°	955.4	957.3	1002.7	1049.0	1100.0	1200.6	1340.9	1495.4	1669.4	1813.0	1978.1
30°	818.1	814.2	833.3	861.7	905.3	983.1	1088.6	1240.4	1413.9	1630.3	1823.0
32.5°	721.0	721.3	735.6	756.6	792.8	845.3	917.7	1040.9	1204.9	1417.6	1643.6
35°	626.8	626.1	636.7	651.9	667.0	700.7	750.2	814.9	927.6	1126.3	1357.2
37.5°	559.2	562.1	567.3	576.8	593.6	612.3	642.0	685.4	765.8	883.2	1077.3
40°	521.2	522.5	529.8	537.7	547.6	562.1	586.5	621.6	680.3	774.0	915.8
42.5°	486.4	487.8	492.8	500.2	508.1	522.5	542.8	573.0	620.6	693.7	810.7
45°	435.5	435.5	440.1	443.4	451.9	465.1	481.6	506.7	539.7	593.8	671.7
47.5°	387.7	387.8	390.9	396.6	401.9	412.2	428.4	448.9	472.9	514.8	581.3
50°	360.2	360.9	362.9	367.5	370.8	380.0	392.6	410.4	435.5	467.8	523.2
52.5°	338.1	337.7	340.2	342.2	344.4	351.0	360.4	376.1	398.5	426.6	472.5
55°	302.2	299.5	303.5	306.8	308.8	311.4	316.7	326.6	345.7	369.5	403.8
57.5°	257.4	256.2	259.1	262.1	268.3	275.4	279.9	286.2	296.1	313.1	347.2
60°	220.3	220.3	226.3	228.3	235.6	244.8	254.0	259.3	269.2	280.4	305.5
62.5°	187.6	188.2	191.0	193.0	197.0	208.4	221.3	232.9	242.3	253.0	269.6
65°	157.0	158.3	158.3	159.6	162.3	165.0	170.2	179.4	196.0	211.1	223.7
67.5°	133.3	133.7	134.1	135.3	136.0	139.0	141.0	145.2	149.0	163.3	178.9
70°	117.4	119.4	118.7	120.1	120.7	122.1	124.7	126.7	132.6	136.0	145.2
72.5°	102.6	104.1	104.0	104.8	106.5	106.8	108.8	110.8	114.7	117.4	122.4
75°	83.2	82.5	83.2	84.5	85.2	85.8	85.8	88.4	90.4	93.0	96.3
77.5°	64.1	64.8	64.7	64.8	64.9	66.1	66.0	67.2	69.1	70.4	72.1
80°	51.5	52.1	51.5	52.1	52.8	53.5	52.8	53.5	55.4	56.7	56.7
82.5°	39.9	40.0	40.4	40.6	40.6	40.8	41.7	41.8	43.3	43.0	43.6
85°	23.8	23.1	23.1	23.1	23.8	24.5	23.8	23.8	24.5	24.5	24.5
87.5°	10.4	10.9	10.9	10.8	10.8	10.8	10.7	11.1	10.5	10.9	10.3
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°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1944.3	1940.0	1936.4	1926.8	1922.1	1911.5	1910.0	1909.4	1895.7	1882.5	1878.8
5°	2011.0	2000.4	1984.7	1966.2	1947.1	1927.3	1914.1	1903.5	1877.1	1852.0	1837.5
7.5°	2078.4	2055.6	2028.3	1993.4	1964.2	1931.5	1907.2	1885.4	1848.0	1812.1	1787.9
10°	2128.5	2091.5	2055.2	2007.1	1969.5	1932.5	1898.2	1868.5	1826.3	1778.8	1745.2
12.5°	2159.6	2119.0	2069.0	2021.9	1973.2	1926.2	1880.3	1842.1	1792.5	1743.4	1703.5
15°	2201.7	2158.2	2097.5	2030.2	1967.5	1906.2	1853.4	1805.9	1741.2	1682.5	1633.7
17.5°	2236.2	2176.3	2111.1	2033.3	1960.7	1882.7	1814.7	1754.0	1682.0	1611.2	1553.7
20°	2247.2	2187.9	2112.6	2034.8	1949.0	1857.3	1784.1	1718.1	1640.9	1563.7	1497.7
22.5°	2240.4	2194.2	2110.6	2017.4	1929.5	1833.6	1750.8	1674.3	1588.6	1509.8	1433.3
25°	2193.8	2178.0	2098.8	1997.2	1896.9	1785.4	1689.7	1605.9	1508.3	1423.8	1340.7
27.5°	2085.2	2119.4	2070.3	1962.0	1850.5	1731.0	1623.5	1528.1	1426.8	1331.7	1248.9
30°	1980.7	2059.2	2038.1	1937.8	1813.1	1695.7	1574.9	1475.3	1367.1	1269.5	1187.7
32.5°	1837.6	1967.4	1988.0	1904.0	1775.1	1646.1	1519.5	1420.4	1307.4	1204.5	1124.8
35°	1609.9	1803.9	1892.9	1839.5	1710.2	1571.0	1440.3	1324.8	1211.3	1109.7	1030.6
37.5°	1338.2	1602.4	1750.8	1754.6	1635.9	1491.2	1348.8	1234.2	1118.1	1018.3	932.7
40°	1161.9	1448.2	1641.6	1684.5	1584.2	1427.8	1283.9	1167.2	1053.7	956.1	857.7
42.5°	1003.6	1288.8	1526.5	1601.0	1521.4	1366.1	1221.7	1099.6	989.3	896.9	796.5
45°	811.6	1060.9	1322.8	1456.1	1412.0	1268.1	1115.7	999.6	896.0	816.1	719.8
47.5°	684.6	860.4	1113.9	1294.1	1293.3	1162.0	1012.1	900.9	804.8	730.0	652.0
50°	612.3	765.3	979.8	1184.3	1201.4	1091.3	948.7	838.6	748.9	670.4	607.7
52.5°	547.3	673.5	866.3	1062.4	1111.2	1015.8	877.5	775.8	688.7	616.5	562.8
55°	462.5	560.2	706.6	890.0	964.0	896.6	774.0	678.9	608.3	547.6	501.4
57.5°	391.2	464.5	582.0	729.7	815.8	773.4	672.2	595.0	534.6	479.7	443.2
60°	346.4	406.4	506.1	629.5	724.4	694.7	608.3	536.4	484.9	437.5	403.1
62.5°	304.2	355.8	441.2	541.3	628.4	616.1	545.5	485.2	440.1	396.8	367.7
65°	244.8	282.4	349.0	427.6	497.5	503.4	452.6	411.7	371.4	337.2	311.4
67.5°	194.9	219.5	266.4	332.5	385.0	403.6	372.6	341.4	309.4	282.9	260.6
70°	164.3	184.1	218.3	271.8	320.0	339.8	322.0	297.6	269.8	248.1	228.9
72.5°	133.1	152.4	177.7	217.0	258.2	279.7	273.5	255.9	233.4	215.3	197.3
75°	100.3	106.2	123.4	149.8	182.1	200.6	205.2	196.0	178.1	164.3	153.7
77.5°	74.1	77.7	85.9	99.8	120.9	137.3	144.1	143.0	130.8	122.7	112.8
80°	59.4	61.4	65.3	71.3	87.1	103.6	108.2	108.2	99.6	96.3	86.4
82.5°	45.1	46.6	49.0	52.3	59.7	74.0	79.2	80.2	74.8	70.4	62.7
85°	25.7	25.1	26.4	28.4	29.7	33.7	41.6	42.9	41.6	36.2	34.3
87.5°	10.2	10.6	10.4	9.7	10.1	10.5	12.9	15.4	13.4	12.1	11.2
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: P331845-935

CATALOG NUMBER: S122RDIW-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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1872.0	1868.3	1861.4	1850.8	1844.5	1833.4	1826.0	1830.2	1831.3	1830.2	1829.2
5°	1821.7	1807.8	1788.7	1770.2	1753.1	1734.6	1724.1	1719.4	1710.2	1704.9	1702.3
7.5°	1760.8	1737.0	1709.9	1677.7	1650.4	1621.8	1607.1	1599.8	1581.0	1570.7	1561.7
10°	1715.5	1677.8	1650.8	1608.6	1582.9	1545.2	1519.5	1520.2	1494.4	1479.9	1469.4
12.5°	1665.3	1624.0	1579.0	1541.0	1505.3	1475.1	1444.0	1431.5	1404.2	1390.2	1361.7
15°	1582.2	1534.0	1486.5	1435.0	1398.8	1351.9	1307.1	1252.3	1208.1	1169.8	1159.3
17.5°	1491.4	1431.8	1384.1	1323.7	1261.5	1182.8	1130.8	1099.0	1072.3	1052.1	1037.1
20°	1429.1	1368.4	1317.6	1226.6	1142.7	1089.3	1051.0	1026.7	998.9	977.1	965.3
22.5°	1363.7	1300.3	1231.1	1129.5	1064.1	1021.2	987.1	959.1	940.3	923.3	912.5
25°	1270.7	1201.4	1087.4	1017.4	964.6	919.7	896.0	878.8	859.0	835.9	825.4
27.5°	1172.6	1062.4	980.4	928.4	878.0	848.9	827.5	801.9	784.2	773.8	762.8
30°	1099.2	989.0	925.1	868.3	832.7	800.3	775.2	760.8	743.6	725.7	718.5
32.5°	1017.4	929.4	868.1	820.8	784.6	757.1	737.3	713.8	701.4	690.4	675.2
35°	915.8	849.1	793.1	754.8	720.5	698.1	674.9	661.1	638.7	629.5	623.5
37.5°	829.7	772.0	730.1	689.7	662.5	637.7	623.6	601.6	591.9	579.0	566.5
40°	781.2	724.4	684.2	651.2	620.9	602.4	584.5	566.8	552.2	546.3	531.2
42.5°	731.6	685.4	645.1	609.0	588.7	569.1	546.6	533.5	518.5	508.9	499.5
45°	663.1	622.2	587.9	558.2	535.7	515.3	500.8	479.0	470.5	451.3	443.4
47.5°	603.0	564.9	532.2	503.9	482.1	468.7	447.5	430.4	416.7	405.0	394.9
50°	560.2	528.5	496.8	471.7	451.9	432.8	411.0	402.4	381.3	375.4	369.5
52.5°	521.1	491.0	462.0	437.5	417.7	399.1	379.9	368.7	354.5	348.5	344.1
55°	466.5	437.5	409.7	388.0	368.2	349.0	337.2	323.3	316.7	312.1	306.8
57.5°	411.6	385.5	364.2	342.2	322.3	307.0	293.3	285.0	278.2	272.1	265.8
60°	376.8	351.6	332.5	312.1	291.6	279.1	268.5	258.6	250.7	241.5	238.8
62.5°	339.8	317.9	300.3	280.4	262.6	251.2	241.1	231.7	222.2	208.8	205.1
65°	289.0	271.8	253.4	236.9	221.0	209.8	195.3	184.8	180.8	179.4	178.8
67.5°	243.1	226.9	211.0	194.1	179.7	169.3	162.0	160.3	157.6	156.8	154.9
70°	212.5	197.3	181.4	165.6	151.8	149.8	147.1	144.5	141.2	139.9	138.5
72.5°	185.0	169.3	153.4	140.8	134.8	132.3	129.8	127.1	124.8	123.6	122.7
75°	141.9	127.3	116.8	112.2	108.8	106.9	102.9	100.9	99.6	97.6	96.9
77.5°	102.1	93.9	89.1	86.2	82.7	80.6	78.4	76.4	75.0	74.6	73.5
80°	77.8	73.9	70.6	66.6	65.3	62.7	62.0	60.0	60.7	58.7	58.7
82.5°	60.4	55.4	52.7	50.8	49.5	47.4	46.8	45.8	45.9	44.4	44.4
85°	31.0	29.7	28.4	27.0	27.0	25.1	25.7	25.1	25.1	23.8	23.1
87.5°	10.8	10.4	9.6	9.6	9.8	9.4	9.5	9.0	9.1	9.2	8.7
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: P331845-935

CATALOG NUMBER: S122RDIW-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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1823.4	1824.5	1822.9	1823.9	1822.9	1824.5	1823.4	1829.2	1830.2	1831.3	1830.2
5°	1698.9	1691.0	1689.7	1687.7	1689.7	1691.0	1698.9	1702.3	1704.9	1710.2	1719.4
7.5°	1550.4	1549.2	1545.9	1541.3	1545.9	1549.2	1550.4	1561.7	1570.7	1581.0	1599.8
10°	1454.8	1451.6	1450.9	1446.2	1450.9	1451.6	1454.8	1469.4	1479.9	1494.4	1520.2
12.5°	1342.9	1321.7	1319.5	1307.9	1319.5	1321.7	1342.9	1361.7	1390.2	1404.2	1431.5
15°	1143.4	1139.4	1126.3	1117.7	1126.3	1139.4	1143.4	1159.3	1169.8	1208.1	1252.3
17.5°	1029.4	1016.5	1012.4	1010.6	1012.4	1016.5	1029.4	1037.1	1052.1	1072.3	1099.0
20°	956.1	944.2	942.2	940.9	942.2	944.2	956.1	965.3	977.1	998.9	1026.7
22.5°	905.3	892.9	887.8	883.8	887.8	892.9	905.3	912.5	923.3	940.3	959.1
25°	818.8	814.2	811.6	810.2	811.6	814.2	818.8	825.4	835.9	859.0	878.8
27.5°	751.1	741.0	739.0	735.6	739.0	741.0	751.1	762.8	773.8	784.2	801.9
30°	712.6	709.3	704.6	700.7	704.6	709.3	712.6	718.5	725.7	743.6	760.8
32.5°	667.2	664.4	660.3	658.5	660.3	664.4	667.2	675.2	690.4	701.4	713.8
35°	616.9	607.7	603.7	597.8	603.7	607.7	616.9	623.5	629.5	638.7	661.1
37.5°	563.7	558.9	553.3	555.3	553.3	558.9	563.7	566.5	579.0	591.9	601.6
40°	522.5	519.3	518.0	517.3	518.0	519.3	522.5	531.2	546.3	552.2	566.8
42.5°	489.8	480.7	477.3	477.2	477.3	480.7	489.8	499.5	508.9	518.5	533.5
45°	440.1	431.5	425.6	426.2	425.6	431.5	440.1	443.4	451.3	470.5	479.0
47.5°	389.2	388.9	385.2	386.3	385.2	388.9	389.2	394.9	405.0	416.7	430.4
50°	364.9	360.9	358.3	359.0	358.3	360.9	364.9	369.5	375.4	381.3	402.4
52.5°	341.6	338.2	336.1	338.9	336.1	338.2	341.6	344.1	348.5	354.5	368.7
55°	303.5	299.5	298.9	298.3	298.9	299.5	303.5	306.8	312.1	316.7	323.3
57.5°	260.9	258.2	254.3	252.5	254.3	258.2	260.9	265.8	272.1	278.2	285.0
60°	230.2	225.0	218.3	217.7	218.3	225.0	230.2	238.8	241.5	250.7	258.6
62.5°	202.2	201.2	199.9	199.8	199.9	201.2	202.2	205.1	208.8	222.2	231.7
65°	177.5	176.8	177.5	178.1	177.5	176.8	177.5	178.8	179.4	180.8	184.8
67.5°	154.6	153.4	152.3	152.8	152.3	153.4	154.6	154.9	156.8	157.6	160.3
70°	137.2	136.6	136.0	136.0	136.0	136.6	137.2	138.5	139.9	141.2	144.5
72.5°	120.4	120.2	119.6	119.0	119.6	120.2	120.4	122.7	123.6	124.8	127.1
75°	96.3	95.0	95.0	95.0	95.0	95.0	96.3	96.9	97.6	99.6	100.9
77.5°	73.4	72.7	72.1	71.5	72.1	72.7	73.4	73.5	74.6	75.0	76.4
80°	58.0	57.4	56.7	56.7	56.7	57.4	58.0	58.7	58.7	60.7	60.0
82.5°	44.3	43.7	43.6	43.0	43.6	43.7	44.3	44.4	44.4	45.9	45.8
85°	23.8	24.5	23.8	25.1	23.8	24.5	23.8	23.1	23.8	25.1	25.1
87.5°	8.8	8.3	8.8	8.4	8.8	8.3	8.8	8.7	9.2	9.1	9.0
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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1826.0	1833.4	1844.5	1850.8	1861.4	1868.3	1872.0	1878.8	1882.5	1895.7	1909.4
5°	1724.1	1734.6	1753.1	1770.2	1788.7	1807.8	1821.7	1837.5	1852.0	1877.1	1903.5
7.5°	1607.1	1621.8	1650.4	1677.7	1709.9	1737.0	1760.8	1787.9	1812.1	1848.0	1885.4
10°	1519.5	1545.2	1582.9	1608.6	1650.8	1677.8	1715.5	1745.2	1778.8	1826.3	1868.5
12.5°	1444.0	1475.1	1505.3	1541.0	1579.0	1624.0	1665.3	1703.5	1743.4	1792.5	1842.1
15°	1307.1	1351.9	1398.8	1435.0	1486.5	1534.0	1582.2	1633.7	1682.5	1741.2	1805.9
17.5°	1130.8	1182.8	1261.5	1323.7	1384.1	1431.8	1491.4	1553.7	1611.2	1682.0	1754.0
20°	1051.0	1089.3	1142.7	1226.6	1317.6	1368.4	1429.1	1497.7	1563.7	1640.9	1718.1
22.5°	987.1	1021.2	1064.1	1129.5	1231.1	1300.3	1363.7	1433.3	1509.8	1588.6	1674.3
25°	896.0	919.7	964.6	1017.4	1087.4	1201.4	1270.7	1340.7	1423.8	1508.3	1605.9
27.5°	827.5	848.9	878.0	928.4	980.4	1062.4	1172.6	1248.9	1331.7	1426.8	1528.1
30°	775.2	800.3	832.7	868.3	925.1	989.0	1099.2	1187.7	1269.5	1367.1	1475.3
32.5°	737.3	757.1	784.6	820.8	868.1	929.4	1017.4	1124.8	1204.5	1307.4	1420.4
35°	674.9	698.1	720.5	754.8	793.1	849.1	915.8	1030.6	1109.7	1211.3	1324.8
37.5°	623.6	637.7	662.5	689.7	730.1	772.0	829.7	932.7	1018.3	1118.1	1234.2
40°	584.5	602.4	620.9	651.2	684.2	724.4	781.2	857.7	956.1	1053.7	1167.2
42.5°	546.6	569.1	588.7	609.0	645.1	685.4	731.6	796.5	896.9	989.3	1099.6
45°	500.8	515.3	535.7	558.2	587.9	622.2	663.1	719.8	816.1	896.0	999.6
47.5°	447.5	468.7	482.1	503.9	532.2	564.9	603.0	652.0	730.0	804.8	900.9
50°	411.0	432.8	451.9	471.7	496.8	528.5	560.2	607.7	670.4	748.9	838.6
52.5°	379.9	399.1	417.7	437.5	462.0	491.0	521.1	562.8	616.5	688.7	775.8
55°	337.2	349.0	368.2	388.0	409.7	437.5	466.5	501.4	547.6	608.3	678.9
57.5°	293.3	307.0	322.3	342.2	364.2	385.5	411.6	443.2	479.7	534.6	595.0
60°	268.5	279.1	291.6	312.1	332.5	351.6	376.8	403.1	437.5	484.9	536.4
62.5°	241.1	251.2	262.6	280.4	300.3	317.9	339.8	367.7	396.8	440.1	485.2
65°	195.3	209.8	221.0	236.9	253.4	271.8	289.0	311.4	337.2	371.4	411.7
67.5°	162.0	169.3	179.7	194.1	211.0	226.9	243.1	260.6	282.9	309.4	341.4
70°	147.1	149.8	151.8	165.6	181.4	197.3	212.5	228.9	248.1	269.8	297.6
72.5°	129.8	132.3	134.8	140.8	153.4	169.3	185.0	197.3	215.3	233.4	255.9
75°	102.9	106.9	108.8	112.2	116.8	127.3	141.9	153.7	164.3	178.1	196.0
77.5°	78.4	80.6	82.7	86.2	89.1	93.9	102.1	112.8	122.7	130.8	143.0
80°	62.0	62.7	65.3	66.6	70.6	73.9	77.8	86.4	96.3	99.6	108.2
82.5°	46.8	47.4	49.5	50.8	52.7	55.4	60.4	62.7	70.4	74.8	80.2
85°	25.7	25.1	27.0	27.0	28.4	29.7	31.0	34.3	36.2	41.6	42.9
87.5°	9.5	9.4	9.8	9.6	9.6	10.4	10.8	11.2	12.1	13.4	15.4
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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**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: P331845-935

CATALOG NUMBER: S122RDIW-S1005D435U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1910.0	1911.5	1922.1	1926.8	1936.4	1940.0	1944.3	1943.2	1943.2	1945.3	1960.1
5°	1914.1	1927.3	1947.1	1966.2	1984.7	2000.4	2011.0	2021.6	2025.6	2044.7	2061.8
7.5°	1907.2	1931.5	1964.2	1993.4	2028.3	2055.6	2078.4	2098.8	2112.8	2140.6	2169.1
10°	1898.2	1932.5	1969.5	2007.1	2055.2	2091.5	2128.5	2156.9	2166.1	2207.7	2231.5
12.5°	1880.3	1926.2	1973.2	2021.9	2069.0	2119.0	2159.6	2188.0	2220.4	2257.8	2301.6
15°	1853.4	1906.2	1967.5	2030.2	2097.5	2158.2	2201.7	2251.2	2286.8	2327.7	2366.0
17.5°	1814.7	1882.7	1960.7	2033.3	2111.1	2176.3	2236.2	2283.6	2308.8	2332.1	2337.8
20°	1784.1	1857.3	1949.0	2034.8	2112.6	2187.9	2247.2	2286.8	2293.4	2294.0	2259.1
22.5°	1750.8	1833.6	1929.5	2017.4	2110.6	2194.2	2240.4	2257.3	2231.1	2186.4	2118.7
25°	1689.7	1785.4	1896.9	1997.2	2098.8	2178.0	2193.8	2164.1	2072.4	1976.1	1854.0
27.5°	1623.5	1731.0	1850.5	1962.0	2070.3	2119.4	2085.2	1978.1	1813.0	1669.4	1495.4
30°	1574.9	1695.7	1813.1	1937.8	2038.1	2059.2	1980.7	1823.0	1630.3	1413.9	1240.4
32.5°	1519.5	1646.1	1775.1	1904.0	1988.0	1967.4	1837.6	1643.6	1417.6	1204.9	1040.9
35°	1440.3	1571.0	1710.2	1839.5	1892.9	1803.9	1609.9	1357.2	1126.3	927.6	814.9
37.5°	1348.8	1491.2	1635.9	1754.6	1750.8	1602.4	1338.2	1077.3	883.2	765.8	685.4
40°	1283.9	1427.8	1584.2	1684.5	1641.6	1448.2	1161.9	915.8	774.0	680.3	621.6
42.5°	1221.7	1366.1	1521.4	1601.0	1526.5	1288.8	1003.6	810.7	693.7	620.6	573.0
45°	1115.7	1268.1	1412.0	1456.1	1322.8	1060.9	811.6	671.7	593.8	539.7	506.7
47.5°	1012.1	1162.0	1293.3	1294.1	1113.9	860.4	684.6	581.3	514.8	472.9	448.9
50°	948.7	1091.3	1201.4	1184.3	979.8	765.3	612.3	523.2	467.8	435.5	410.4
52.5°	877.5	1015.8	1111.2	1062.4	866.3	673.5	547.3	472.5	426.6	398.5	376.1
55°	774.0	896.6	964.0	890.0	706.6	560.2	462.5	403.8	369.5	345.7	326.6
57.5°	672.2	773.4	815.8	729.7	582.0	464.5	391.2	347.2	313.1	296.1	286.2
60°	608.3	694.7	724.4	629.5	506.1	406.4	346.4	305.5	280.4	269.2	259.3
62.5°	545.5	616.1	628.4	541.3	441.2	355.8	304.2	269.6	253.0	242.3	232.9
65°	452.6	503.4	497.5	427.6	349.0	282.4	244.8	223.7	211.1	196.0	179.4
67.5°	372.6	403.6	385.0	332.5	266.4	219.5	194.9	178.9	163.3	149.0	145.2
70°	322.0	339.8	320.0	271.8	218.3	184.1	164.3	145.2	136.0	132.6	126.7
72.5°	273.5	279.7	258.2	217.0	177.7	152.4	133.1	122.4	117.4	114.7	110.8
75°	205.2	200.6	182.1	149.8	123.4	106.2	100.3	96.3	93.0	90.4	88.4
77.5°	144.1	137.3	120.9	99.8	85.9	77.7	74.1	72.1	70.4	69.1	67.2
80°	108.2	103.6	87.1	71.3	65.3	61.4	59.4	56.7	56.7	55.4	53.5
82.5°	79.2	74.0	59.7	52.3	49.0	46.6	45.1	43.6	43.0	43.3	41.8
85°	41.6	33.7	29.7	28.4	26.4	25.1	25.7	24.5	24.5	24.5	23.8
87.5°	12.9	10.5	10.1	9.7	10.4	10.6	10.2	10.3	10.9	10.5	11.1
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°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1965.4	1972.2	1975.4	1975.4	1979.1	1977.5	1975.9
5°	2078.4	2090.9	2093.5	2105.4	2113.9	2111.3	2112.6
7.5°	2190.6	2210.8	2230.8	2239.9	2241.3	2246.6	2248.6
10°	2259.8	2276.3	2307.3	2302.7	2325.7	2339.0	2317.2
12.5°	2326.2	2348.5	2370.1	2376.0	2389.1	2393.3	2384.7
15°	2386.4	2398.3	2399.7	2396.3	2400.3	2397.0	2384.5
17.5°	2330.2	2311.0	2271.9	2253.4	2238.8	2217.2	2208.5
20°	2237.3	2180.6	2114.6	2088.3	2057.2	1996.5	2011.0
22.5°	2036.8	1972.1	1906.2	1829.1	1792.3	1734.7	1731.3
25°	1724.7	1613.2	1490.5	1404.7	1354.5	1297.2	1272.0
27.5°	1340.9	1200.6	1100.0	1049.0	1002.7	957.3	955.4
30°	1088.6	983.1	905.3	861.7	833.3	814.2	818.1
32.5°	917.7	845.3	792.8	756.6	735.6	721.3	721.0
35°	750.2	700.7	667.0	651.9	636.7	626.1	626.8
37.5°	642.0	612.3	593.6	576.8	567.3	562.1	559.2
40°	586.5	562.1	547.6	537.7	529.8	522.5	521.2
42.5°	542.8	522.5	508.1	500.2	492.8	487.8	486.4
45°	481.6	465.1	451.9	443.4	440.1	435.5	435.5
47.5°	428.4	412.2	401.9	396.6	390.9	387.8	387.7
50°	392.6	380.0	370.8	367.5	362.9	360.9	360.2
52.5°	360.4	351.0	344.4	342.2	340.2	337.7	338.1
55°	316.7	311.4	308.8	306.8	303.5	299.5	302.2
57.5°	279.9	275.4	268.3	262.1	259.1	256.2	257.4
60°	254.0	244.8	235.6	228.3	226.3	220.3	220.3
62.5°	221.3	208.4	197.0	193.0	191.0	188.2	187.6
65°	170.2	165.0	162.3	159.6	158.3	158.3	157.0
67.5°	141.0	139.0	136.0	135.3	134.1	133.7	133.3
70°	124.7	122.1	120.7	120.1	118.7	119.4	117.4
72.5°	108.8	106.8	106.5	104.8	104.0	104.1	102.6
75°	85.8	85.8	85.2	84.5	83.2	82.5	83.2
77.5°	66.0	66.1	64.9	64.8	64.7	64.8	64.1
80°	52.8	53.5	52.8	52.1	51.5	52.1	51.5
82.5°	41.7	40.8	40.6	40.6	40.4	40.0	39.9
85°	23.8	24.5	23.8	23.1	23.1	23.1	23.8
87.5°	10.7	10.8	10.8	10.8	10.9	10.9	10.4
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)