

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: P331850-830

Luminaire Tested: **S122RDIW-S1005D710U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331850-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S1005D710U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5913.3 lumens
Efficiency: N/A
Efficacy: 98.9 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

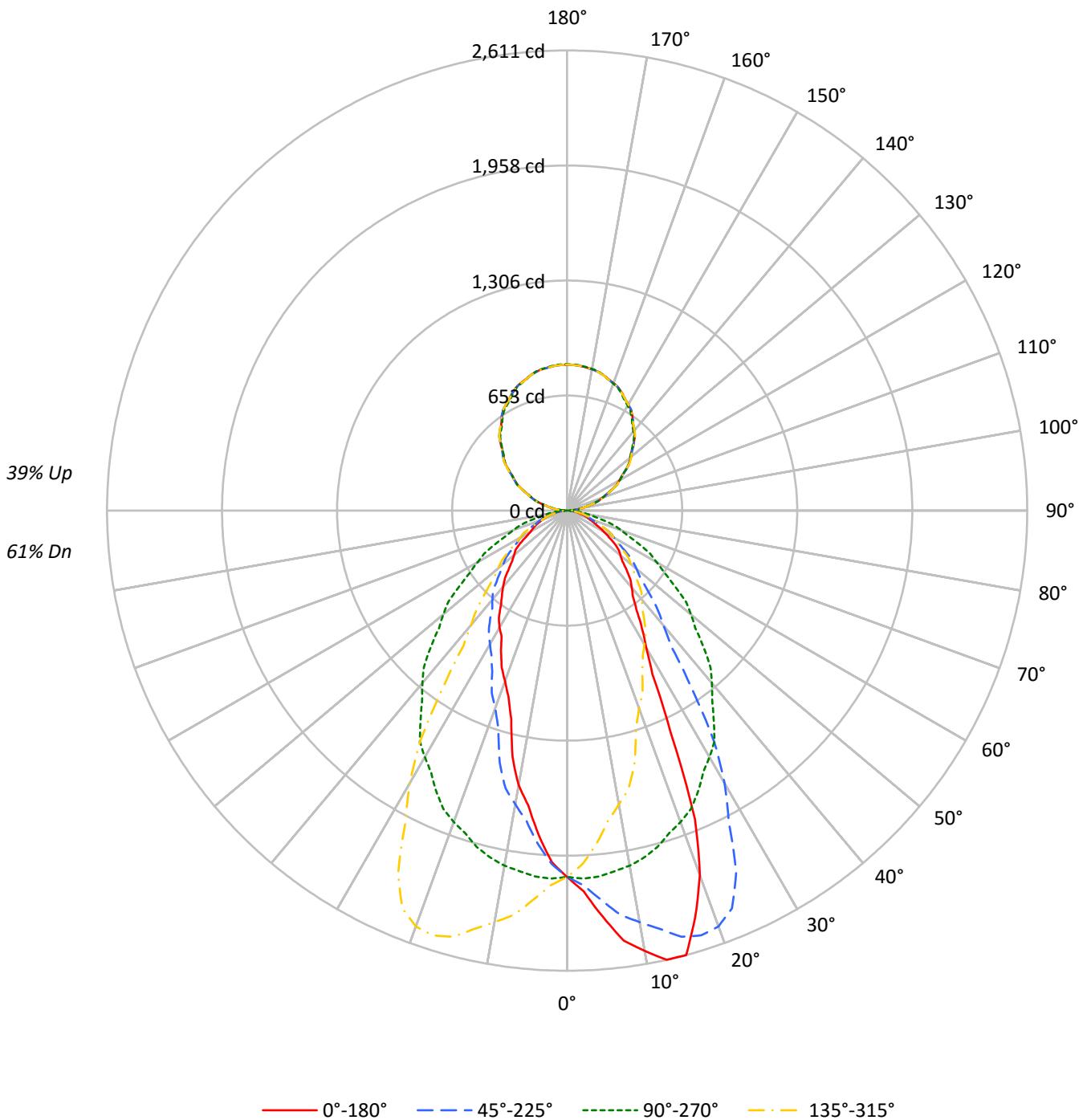
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	90	95	91	88	85	80	77	75	69	68	66	60	59	58	53
2	93	86	80	75	87	81	76	71	71	67	64	62	59	57	54	52	50	46
3	85	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	40
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	36
5	73	62	54	48	68	58	51	46	52	46	42	46	42	38	40	37	35	32
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	28
7	63	51	43	38	59	48	41	36	43	38	34	39	34	31	34	31	28	26
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	23
9	55	43	36	31	51	41	34	30	37	31	28	33	29	26	30	26	23	21
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	3.3
10°-20°	549.1	9.3
20°-30°	707.5	12.0
30°-40°	672.4	11.4
40°-50°	576.0	9.7
50°-60°	438.6	7.4
60°-70°	277.3	4.7
70°-80°	138.5	2.3
80°-90°	39.4	0.7
90°-100°	52.5	0.9
100°-110°	163.1	2.8
110°-120°	278.8	4.7
120°-130°	366.6	6.2
130°-140°	411.5	7.0
140°-150°	403.5	6.8
150°-160°	338.4	5.7
160°-170°	224.5	3.8
170°-180°	78.5	1.3
0°-30°	1453.7	24.6
0°-40°	2126.0	36.0
0°-60°	3140.7	53.1
0°-90°	3595.8	60.8
90°-120°	494.4	8.4
90°-150°	1676.1	28.3
90°-180°	2317.0	39.2
0°-180°	5913.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	29
90°	24	1	24	1	24	12
95°	43	36	43	36	43	48
105°	155	150	155	150	155	163
115°	280	280	280	280	280	276
125°	408	407	408	407	408	364
135°	533	527	533	527	533	410
145°	646	639	646	639	646	404
155°	736	731	736	731	736	339
165°	796	795	796	795	796	224
175°	825	827	825	827	825	78
180°	829	829	829	829	829	



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	14.0	14.5	14.5	14.5	14.4	14.5	14.5	15.2	14.7	15.3	14.0
90°	23.8	23.7	23.5	23.3	23.2	23.3	23.6	23.8	24.1	24.5	21.0
92.5°	22.6	22.6	22.6	22.5	22.5	22.5	22.4	22.3	22.3	22.2	21.4
95°	43.4	43.6	44.0	44.3	44.6	44.8	44.8	44.8	44.8	44.8	44.5
97.5°	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	74.6
100°	95.9	96.0	96.1	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.0
102.5°	119.3	119.5	119.6	119.8	120.0	120.0	119.8	119.7	119.6	119.4	118.9
105°	155.2	155.2	155.2	155.2	155.2	155.1	154.8	154.5	154.2	153.9	153.5
107.5°	189.2	189.8	190.6	191.2	192.0	192.3	192.2	192.0	191.9	191.8	191.8
110°	215.5	215.8	216.3	216.8	217.3	217.5	217.5	217.5	217.5	217.5	217.5



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	240.6	240.9	241.3	241.7	242.0	242.3	242.7	243.1	243.5	243.8	243.9
115°	279.7	280.2	280.7	281.2	281.6	281.9	282.1	282.3	282.4	282.6	282.9
117.5°	317.1	317.5	318.0	318.5	319.0	319.4	319.8	320.2	320.6	320.9	321.8
120°	343.4	343.8	344.3	344.8	345.3	345.5	345.5	345.5	345.5	345.5	346.8
122.5°	369.2	369.5	369.9	370.1	370.5	370.9	371.3	371.6	372.0	372.4	373.2
125°	408.5	408.6	408.8	409.0	409.1	409.3	409.8	410.3	410.8	411.2	411.7
127.5°	444.3	444.8	445.3	445.7	446.3	446.8	447.3	447.9	448.5	449.0	449.6
130°	470.0	470.6	471.3	471.8	472.5	473.0	473.3	473.6	473.9	474.2	474.5
132.5°	494.6	495.1	495.6	496.2	496.6	497.2	497.9	498.6	499.3	499.9	499.9
135°	532.9	533.4	533.9	534.3	534.8	535.2	535.3	535.5	535.6	535.7	535.5
137.5°	567.6	568.3	568.9	569.5	570.1	570.5	570.6	570.7	570.9	571.0	570.6
140°	591.7	592.3	593.0	593.6	594.2	594.5	594.5	594.5	594.5	594.5	593.7
142.5°	613.5	614.2	614.7	615.4	616.0	616.2	616.1	616.0	615.9	615.8	615.2
145°	646.3	646.9	647.5	648.1	648.8	648.9	648.8	648.7	648.5	648.4	647.4
147.5°	675.5	676.1	676.7	677.3	677.9	678.0	677.6	677.3	676.9	676.7	676.0
150°	694.6	695.0	695.4	695.9	696.4	696.4	695.9	695.4	695.0	694.6	693.9
152.5°	712.5	713.0	713.6	714.2	714.8	714.8	714.2	713.6	713.0	712.5	711.7
155°	736.5	737.0	737.4	737.9	738.4	738.2	737.4	736.6	735.8	735.1	734.6
157.5°	757.1	757.9	758.7	759.4	760.2	760.0	758.9	757.9	756.9	755.8	755.5
160°	770.1	770.7	771.3	771.9	772.5	772.4	771.5	770.5	769.6	768.6	768.5
162.5°	781.3	782.0	782.8	783.4	784.2	784.1	783.1	781.9	780.9	779.9	779.7
165°	796.0	796.7	797.5	798.2	799.1	798.9	797.8	796.7	795.6	794.6	794.6
167.5°	807.9	808.8	809.5	810.4	811.2	811.1	809.9	808.9	807.8	806.7	806.7
170°	814.1	815.0	816.0	816.9	817.8	817.7	816.7	815.6	814.5	813.4	813.6
172.5°	819.2	820.1	821.0	822.0	822.8	822.8	821.7	820.7	819.5	818.4	818.6
175°	824.6	825.6	826.5	827.4	828.3	828.3	827.2	826.0	825.0	823.9	824.3
177.5°	827.1	827.8	828.6	829.3	830.1	830.1	829.3	828.6	827.8	827.1	827.4
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	13.4	13.3	12.5	11.5	11.7	11.9	14.4	16.9	15.0	13.6	12.8
90°	17.6	14.2	10.8	8.2	6.3	4.4	2.5	0.7	2.5	4.4	6.3
92.5°	20.6	19.8	19.0	17.9	16.6	15.2	13.9	12.4	13.9	15.2	16.6
95°	44.1	43.8	43.5	42.6	41.0	39.5	37.9	36.4	37.9	39.5	41.0
97.5°	74.1	73.5	72.9	71.9	70.5	69.2	67.8	66.4	67.8	69.2	70.5
100°	95.6	95.1	94.6	93.8	92.6	91.3	90.1	88.8	90.1	91.3	92.6
102.5°	118.3	117.7	117.1	116.3	115.3	114.3	113.3	112.4	113.3	114.3	115.3
105°	153.3	153.0	152.6	152.2	151.7	151.3	150.8	150.3	150.8	151.3	151.7
107.5°	191.8	191.8	191.8	191.4	190.8	190.1	189.4	188.7	189.4	190.1	190.8
110°	217.5	217.5	217.5	217.1	216.1	215.2	214.2	213.3	214.2	215.2	216.1



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	244.0	244.2	244.3	243.9	243.0	242.0	241.1	240.2	241.1	242.0	243.0
115°	283.1	283.5	283.8	283.5	282.6	281.6	280.7	279.7	280.7	281.6	282.6
117.5°	322.6	323.5	324.3	324.1	322.9	321.7	320.5	319.2	320.5	321.7	322.9
120°	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5	346.8	348.0	349.2
122.5°	374.1	374.9	375.9	375.5	374.0	372.6	371.1	369.6	371.1	372.6	374.0
125°	412.2	412.6	413.1	412.6	411.2	409.8	408.5	407.1	408.5	409.8	411.2
127.5°	450.2	450.7	451.3	450.6	448.8	447.1	445.4	443.6	445.4	447.1	448.8
130°	474.9	475.1	475.4	474.6	472.6	470.5	468.5	466.5	468.5	470.5	472.6
132.5°	499.8	499.7	499.7	498.8	497.2	495.6	493.9	492.3	493.9	495.6	497.2
135°	535.2	534.8	534.5	533.5	531.8	530.1	528.4	526.7	528.4	530.1	531.8
137.5°	570.2	569.8	569.4	568.4	567.1	565.7	564.3	562.9	564.3	565.7	567.1
140°	593.0	592.2	591.4	590.3	588.9	587.5	586.1	584.8	586.1	587.5	588.9
142.5°	614.7	614.2	613.7	612.7	611.3	609.9	608.5	607.1	608.5	609.9	611.3
145°	646.5	645.5	644.6	643.7	642.5	641.4	640.4	639.2	640.4	641.4	642.5
147.5°	675.3	674.8	674.1	673.2	671.8	670.5	669.2	668.0	669.2	670.5	671.8
150°	693.2	692.7	692.0	691.3	690.3	689.4	688.4	687.5	688.4	689.4	690.3
152.5°	711.0	710.2	709.5	708.6	707.7	706.7	705.8	704.8	705.8	706.7	707.7
155°	734.1	733.7	733.2	732.7	732.3	731.8	731.3	730.8	731.3	731.8	732.3
157.5°	755.3	755.0	754.7	754.4	754.0	753.8	753.5	753.1	753.5	753.8	754.0
160°	768.4	768.2	768.1	767.8	767.5	767.1	766.9	766.6	766.9	767.1	767.5
162.5°	779.6	779.4	779.2	779.1	779.0	779.0	778.9	778.8	778.9	779.0	779.0
165°	794.6	794.6	794.6	794.7	794.8	794.9	795.0	795.2	795.0	794.9	794.8
167.5°	806.7	806.8	806.8	807.1	807.6	808.0	808.5	809.0	808.5	808.0	807.6
170°	813.7	813.9	814.1	814.4	814.8	815.3	815.8	816.2	815.8	815.3	814.8
172.5°	818.8	818.9	819.1	819.4	819.8	820.3	820.8	821.2	820.8	820.3	819.8
175°	824.5	824.8	825.2	825.6	826.0	826.5	827.0	827.4	827.0	826.5	826.0
177.5°	827.6	827.8	828.1	828.4	828.8	829.2	829.5	829.9	829.5	829.2	828.8
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	12.6	12.5	12.1	12.8	13.5	13.6	13.5	12.8	12.8	12.7	12.2
90°	8.2	10.8	14.2	17.6	21.0	24.5	24.1	23.8	23.6	23.3	23.2
92.5°	17.9	19.0	19.8	20.6	21.4	22.2	22.3	22.3	22.4	22.5	22.5
95°	42.6	43.5	43.8	44.1	44.5	44.8	44.8	44.8	44.8	44.8	44.6
97.5°	71.9	72.9	73.5	74.1	74.6	75.2	75.2	75.2	75.2	75.2	75.2
100°	93.8	94.6	95.1	95.6	96.0	96.5	96.5	96.5	96.5	96.5	96.4
102.5°	116.3	117.1	117.7	118.3	118.9	119.4	119.6	119.7	119.8	120.0	120.0
105°	152.2	152.6	153.0	153.3	153.5	153.9	154.2	154.5	154.8	155.1	155.2
107.5°	191.4	191.8	191.8	191.8	191.8	191.8	191.9	192.0	192.2	192.3	192.0
110°	217.1	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.3



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	243.9	244.3	244.2	244.0	243.9	243.8	243.5	243.1	242.7	242.3	242.0
115°	283.5	283.8	283.5	283.1	282.9	282.6	282.4	282.3	282.1	281.9	281.6
117.5°	324.1	324.3	323.5	322.6	321.8	320.9	320.6	320.2	319.8	319.4	319.0
120°	350.4	350.4	349.2	348.0	346.8	345.5	345.5	345.5	345.5	345.5	345.3
122.5°	375.5	375.9	374.9	374.1	373.2	372.4	372.0	371.6	371.3	370.9	370.5
125°	412.6	413.1	412.6	412.2	411.7	411.2	410.8	410.3	409.8	409.3	409.1
127.5°	450.6	451.3	450.7	450.2	449.6	449.0	448.5	447.9	447.3	446.8	446.3
130°	474.6	475.4	475.1	474.9	474.5	474.2	473.9	473.6	473.3	473.0	472.5
132.5°	498.8	499.7	499.7	499.8	499.9	499.9	499.3	498.6	497.9	497.2	496.6
135°	533.5	534.5	534.8	535.2	535.5	535.7	535.6	535.5	535.3	535.2	534.8
137.5°	568.4	569.4	569.8	570.2	570.6	571.0	570.9	570.7	570.6	570.5	570.1
140°	590.3	591.4	592.2	593.0	593.7	594.5	594.5	594.5	594.5	594.5	594.2
142.5°	612.7	613.7	614.2	614.7	615.2	615.8	615.9	616.0	616.1	616.2	616.0
145°	643.7	644.6	645.5	646.5	647.4	648.4	648.5	648.7	648.8	648.9	648.8
147.5°	673.2	674.1	674.8	675.3	676.0	676.7	676.9	677.3	677.6	678.0	677.9
150°	691.3	692.0	692.7	693.2	693.9	694.6	695.0	695.4	695.9	696.4	696.4
152.5°	708.6	709.5	710.2	711.0	711.7	712.5	713.0	713.6	714.2	714.8	714.8
155°	732.7	733.2	733.7	734.1	734.6	735.1	735.8	736.6	737.4	738.2	738.4
157.5°	754.4	754.7	755.0	755.3	755.5	755.8	756.9	757.9	758.9	760.0	760.2
160°	767.8	768.1	768.2	768.4	768.5	768.6	769.6	770.5	771.5	772.4	772.5
162.5°	779.1	779.2	779.4	779.6	779.7	779.9	780.9	781.9	783.1	784.1	784.2
165°	794.7	794.6	794.6	794.6	794.6	794.6	795.6	796.7	797.8	798.9	799.1
167.5°	807.1	806.8	806.8	806.7	806.7	806.7	807.8	808.9	809.9	811.1	811.2
170°	814.4	814.1	813.9	813.7	813.6	813.4	814.5	815.6	816.7	817.7	817.8
172.5°	819.4	819.1	818.9	818.8	818.6	818.4	819.5	820.7	821.7	822.8	822.8
175°	825.6	825.2	824.8	824.5	824.3	823.9	825.0	826.0	827.2	828.3	828.3
177.5°	828.4	828.1	827.8	827.6	827.4	827.1	827.8	828.6	829.3	830.1	830.1
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	12.2	11.6	12.3	11.7	12.3	11.6	12.2	12.2	12.7	12.8	12.8
90°	23.3	23.5	23.7	23.8	23.7	23.5	23.3	23.2	23.3	23.6	23.8
92.5°	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.5	22.5	22.4	22.3
95°	44.3	44.0	43.6	43.4	43.6	44.0	44.3	44.6	44.8	44.8	44.8
97.5°	75.2	75.2	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2
100°	96.3	96.1	96.0	95.9	96.0	96.1	96.3	96.4	96.5	96.5	96.5
102.5°	119.8	119.6	119.5	119.3	119.5	119.6	119.8	120.0	120.0	119.8	119.7
105°	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.1	154.8	154.5
107.5°	191.2	190.6	189.8	189.2	189.8	190.6	191.2	192.0	192.3	192.2	192.0
110°	216.8	216.3	215.8	215.5	215.8	216.3	216.8	217.3	217.5	217.5	217.5



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.7	241.3	240.9	240.6	240.9	241.3	241.7	242.0	242.3	242.7	243.1
115°	281.2	280.7	280.2	279.7	280.2	280.7	281.2	281.6	281.9	282.1	282.3
117.5°	318.5	318.0	317.5	317.1	317.5	318.0	318.5	319.0	319.4	319.8	320.2
120°	344.8	344.3	343.8	343.4	343.8	344.3	344.8	345.3	345.5	345.5	345.5
122.5°	370.1	369.9	369.5	369.2	369.5	369.9	370.1	370.5	370.9	371.3	371.6
125°	409.0	408.8	408.6	408.5	408.6	408.8	409.0	409.1	409.3	409.8	410.3
127.5°	445.7	445.3	444.8	444.3	444.8	445.3	445.7	446.3	446.8	447.3	447.9
130°	471.8	471.3	470.6	470.0	470.6	471.3	471.8	472.5	473.0	473.3	473.6
132.5°	496.2	495.6	495.1	494.6	495.1	495.6	496.2	496.6	497.2	497.9	498.6
135°	534.3	533.9	533.4	532.9	533.4	533.9	534.3	534.8	535.2	535.3	535.5
137.5°	569.5	568.9	568.3	567.6	568.3	568.9	569.5	570.1	570.5	570.6	570.7
140°	593.6	593.0	592.3	591.7	592.3	593.0	593.6	594.2	594.5	594.5	594.5
142.5°	615.4	614.7	614.2	613.5	614.2	614.7	615.4	616.0	616.2	616.1	616.0
145°	648.1	647.5	646.9	646.3	646.9	647.5	648.1	648.8	648.9	648.8	648.7
147.5°	677.3	676.7	676.1	675.5	676.1	676.7	677.3	677.9	678.0	677.6	677.3
150°	695.9	695.4	695.0	694.6	695.0	695.4	695.9	696.4	696.4	695.9	695.4
152.5°	714.2	713.6	713.0	712.5	713.0	713.6	714.2	714.8	714.8	714.2	713.6
155°	737.9	737.4	737.0	736.5	737.0	737.4	737.9	738.4	738.2	737.4	736.6
157.5°	759.4	758.7	757.9	757.1	757.9	758.7	759.4	760.2	760.0	758.9	757.9
160°	771.9	771.3	770.7	770.1	770.7	771.3	771.9	772.5	772.4	771.5	770.5
162.5°	783.4	782.8	782.0	781.3	782.0	782.8	783.4	784.2	784.1	783.1	781.9
165°	798.2	797.5	796.7	796.0	796.7	797.5	798.2	799.1	798.9	797.8	796.7
167.5°	810.4	809.5	808.8	807.9	808.8	809.5	810.4	811.2	811.1	809.9	808.9
170°	816.9	816.0	815.0	814.1	815.0	816.0	816.9	817.8	817.7	816.7	815.6
172.5°	822.0	821.0	820.1	819.2	820.1	821.0	822.0	822.8	822.8	821.7	820.7
175°	827.4	826.5	825.6	824.6	825.6	826.5	827.4	828.3	828.3	827.2	826.0
177.5°	829.3	828.6	827.8	827.1	827.8	828.6	829.3	830.1	830.1	829.3	828.6
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	13.5	13.6	13.5	12.8	12.1	12.5	12.6	12.8	13.6	15.0	16.9
90°	24.1	24.5	21.0	17.6	14.2	10.8	8.2	6.3	4.4	2.5	0.7
92.5°	22.3	22.2	21.4	20.6	19.8	19.0	17.9	16.6	15.2	13.9	12.4
95°	44.8	44.8	44.5	44.1	43.8	43.5	42.6	41.0	39.5	37.9	36.4
97.5°	75.2	75.2	74.6	74.1	73.5	72.9	71.9	70.5	69.2	67.8	66.4
100°	96.5	96.5	96.0	95.6	95.1	94.6	93.8	92.6	91.3	90.1	88.8
102.5°	119.6	119.4	118.9	118.3	117.7	117.1	116.3	115.3	114.3	113.3	112.4
105°	154.2	153.9	153.5	153.3	153.0	152.6	152.2	151.7	151.3	150.8	150.3
107.5°	191.9	191.8	191.8	191.8	191.8	191.8	191.4	190.8	190.1	189.4	188.7
110°	217.5	217.5	217.5	217.5	217.5	217.5	217.1	216.1	215.2	214.2	213.3



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	243.5	243.8	243.9	244.0	244.2	244.3	243.9	243.0	242.0	241.1	240.2
115°	282.4	282.6	282.9	283.1	283.5	283.8	283.5	282.6	281.6	280.7	279.7
117.5°	320.6	320.9	321.8	322.6	323.5	324.3	324.1	322.9	321.7	320.5	319.2
120°	345.5	345.5	346.8	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5
122.5°	372.0	372.4	373.2	374.1	374.9	375.9	375.5	374.0	372.6	371.1	369.6
125°	410.8	411.2	411.7	412.2	412.6	413.1	412.6	411.2	409.8	408.5	407.1
127.5°	448.5	449.0	449.6	450.2	450.7	451.3	450.6	448.8	447.1	445.4	443.6
130°	473.9	474.2	474.5	474.9	475.1	475.4	474.6	472.6	470.5	468.5	466.5
132.5°	499.3	499.9	499.9	499.8	499.7	499.7	498.8	497.2	495.6	493.9	492.3
135°	535.6	535.7	535.5	535.2	534.8	534.5	533.5	531.8	530.1	528.4	526.7
137.5°	570.9	571.0	570.6	570.2	569.8	569.4	568.4	567.1	565.7	564.3	562.9
140°	594.5	594.5	593.7	593.0	592.2	591.4	590.3	588.9	587.5	586.1	584.8
142.5°	615.9	615.8	615.2	614.7	614.2	613.7	612.7	611.3	609.9	608.5	607.1
145°	648.5	648.4	647.4	646.5	645.5	644.6	643.7	642.5	641.4	640.4	639.2
147.5°	676.9	676.7	676.0	675.3	674.8	674.1	673.2	671.8	670.5	669.2	668.0
150°	695.0	694.6	693.9	693.2	692.7	692.0	691.3	690.3	689.4	688.4	687.5
152.5°	713.0	712.5	711.7	711.0	710.2	709.5	708.6	707.7	706.7	705.8	704.8
155°	735.8	735.1	734.6	734.1	733.7	733.2	732.7	732.3	731.8	731.3	730.8
157.5°	756.9	755.8	755.5	755.3	755.0	754.7	754.4	754.0	753.8	753.5	753.1
160°	769.6	768.6	768.5	768.4	768.2	768.1	767.8	767.5	767.1	766.9	766.6
162.5°	780.9	779.9	779.7	779.6	779.4	779.2	779.1	779.0	779.0	778.9	778.8
165°	795.6	794.6	794.6	794.6	794.6	794.6	794.7	794.8	794.9	795.0	795.2
167.5°	807.8	806.7	806.7	806.7	806.8	806.8	807.1	807.6	808.0	808.5	809.0
170°	814.5	813.4	813.6	813.7	813.9	814.1	814.4	814.8	815.3	815.8	816.2
172.5°	819.5	818.4	818.6	818.8	818.9	819.1	819.4	819.8	820.3	820.8	821.2
175°	825.0	823.9	824.3	824.5	824.8	825.2	825.6	826.0	826.5	827.0	827.4
177.5°	827.8	827.1	827.4	827.6	827.8	828.1	828.4	828.8	829.2	829.5	829.9
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.4	11.9	11.7	11.5	12.5	13.3	13.4	14.0	15.3	14.7	15.2
90°	2.5	4.4	6.3	8.2	10.8	14.2	17.6	21.0	24.5	24.1	23.8
92.5°	13.9	15.2	16.6	17.9	19.0	19.8	20.6	21.4	22.2	22.3	22.3
95°	37.9	39.5	41.0	42.6	43.5	43.8	44.1	44.5	44.8	44.8	44.8
97.5°	67.8	69.2	70.5	71.9	72.9	73.5	74.1	74.6	75.2	75.2	75.2
100°	90.1	91.3	92.6	93.8	94.6	95.1	95.6	96.0	96.5	96.5	96.5
102.5°	113.3	114.3	115.3	116.3	117.1	117.7	118.3	118.9	119.4	119.6	119.7
105°	150.8	151.3	151.7	152.2	152.6	153.0	153.3	153.5	153.9	154.2	154.5
107.5°	189.4	190.1	190.8	191.4	191.8	191.8	191.8	191.8	191.8	191.9	192.0
110°	214.2	215.2	216.1	217.1	217.5	217.5	217.5	217.5	217.5	217.5	217.5



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	241.1	242.0	243.0	243.9	244.3	244.2	244.0	243.9	243.8	243.5	243.1
115°	280.7	281.6	282.6	283.5	283.8	283.5	283.1	282.9	282.6	282.4	282.3
117.5°	320.5	321.7	322.9	324.1	324.3	323.5	322.6	321.8	320.9	320.6	320.2
120°	346.8	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5	345.5	345.5
122.5°	371.1	372.6	374.0	375.5	375.9	374.9	374.1	373.2	372.4	372.0	371.6
125°	408.5	409.8	411.2	412.6	413.1	412.6	412.2	411.7	411.2	410.8	410.3
127.5°	445.4	447.1	448.8	450.6	451.3	450.7	450.2	449.6	449.0	448.5	447.9
130°	468.5	470.5	472.6	474.6	475.4	475.1	474.9	474.5	474.2	473.9	473.6
132.5°	493.9	495.6	497.2	498.8	499.7	499.7	499.8	499.9	499.9	499.3	498.6
135°	528.4	530.1	531.8	533.5	534.5	534.8	535.2	535.5	535.7	535.6	535.5
137.5°	564.3	565.7	567.1	568.4	569.4	569.8	570.2	570.6	571.0	570.9	570.7
140°	586.1	587.5	588.9	590.3	591.4	592.2	593.0	593.7	594.5	594.5	594.5
142.5°	608.5	609.9	611.3	612.7	613.7	614.2	614.7	615.2	615.8	615.9	616.0
145°	640.4	641.4	642.5	643.7	644.6	645.5	646.5	647.4	648.4	648.5	648.7
147.5°	669.2	670.5	671.8	673.2	674.1	674.8	675.3	676.0	676.7	676.9	677.3
150°	688.4	689.4	690.3	691.3	692.0	692.7	693.2	693.9	694.6	695.0	695.4
152.5°	705.8	706.7	707.7	708.6	709.5	710.2	711.0	711.7	712.5	713.0	713.6
155°	731.3	731.8	732.3	732.7	733.2	733.7	734.1	734.6	735.1	735.8	736.6
157.5°	753.5	753.8	754.0	754.4	754.7	755.0	755.3	755.5	755.8	756.9	757.9
160°	766.9	767.1	767.5	767.8	768.1	768.2	768.4	768.5	768.6	769.6	770.5
162.5°	778.9	779.0	779.0	779.1	779.2	779.4	779.6	779.7	779.9	780.9	781.9
165°	795.0	794.9	794.8	794.7	794.6	794.6	794.6	794.6	794.6	795.6	796.7
167.5°	808.5	808.0	807.6	807.1	806.8	806.8	806.7	806.7	806.7	807.8	808.9
170°	815.8	815.3	814.8	814.4	814.1	813.9	813.7	813.6	813.4	814.5	815.6
172.5°	820.8	820.3	819.8	819.4	819.1	818.9	818.8	818.6	818.4	819.5	820.7
175°	827.0	826.5	826.0	825.6	825.2	824.8	824.5	824.3	823.9	825.0	826.0
177.5°	829.5	829.2	828.8	828.4	828.1	827.8	827.6	827.4	827.1	827.8	828.6
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	14.5	14.5	14.4	14.5	14.5	14.5	14.0
90°	23.6	23.3	23.2	23.3	23.5	23.7	23.8
92.5°	22.4	22.5	22.5	22.5	22.6	22.6	22.6
95°	44.8	44.8	44.6	44.3	44.0	43.6	43.4
97.5°	75.2	75.2	75.2	75.2	75.2	75.1	75.1
100°	96.5	96.5	96.4	96.3	96.1	96.0	95.9
102.5°	119.8	120.0	120.0	119.8	119.6	119.5	119.3
105°	154.8	155.1	155.2	155.2	155.2	155.2	155.2
107.5°	192.2	192.3	192.0	191.2	190.6	189.8	189.2
110°	217.5	217.5	217.3	216.8	216.3	215.8	215.5



TEST NUMBER: P331850-830

CATALOG NUMBER: S122RDIW-S1005D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	242.3	242.0	241.7	241.3	240.9	240.6
115°	282.1	281.9	281.6	281.2	280.7	280.2	279.7
117.5°	319.8	319.4	319.0	318.5	318.0	317.5	317.1
120°	345.5	345.5	345.3	344.8	344.3	343.8	343.4
122.5°	371.3	370.9	370.5	370.1	369.9	369.5	369.2
125°	409.8	409.3	409.1	409.0	408.8	408.6	408.5
127.5°	447.3	446.8	446.3	445.7	445.3	444.8	444.3
130°	473.3	473.0	472.5	471.8	471.3	470.6	470.0
132.5°	497.9	497.2	496.6	496.2	495.6	495.1	494.6
135°	535.3	535.2	534.8	534.3	533.9	533.4	532.9
137.5°	570.6	570.5	570.1	569.5	568.9	568.3	567.6
140°	594.5	594.5	594.2	593.6	593.0	592.3	591.7
142.5°	616.1	616.2	616.0	615.4	614.7	614.2	613.5
145°	648.8	648.9	648.8	648.1	647.5	646.9	646.3
147.5°	677.6	678.0	677.9	677.3	676.7	676.1	675.5
150°	695.9	696.4	696.4	695.9	695.4	695.0	694.6
152.5°	714.2	714.8	714.8	714.2	713.6	713.0	712.5
155°	737.4	738.2	738.4	737.9	737.4	737.0	736.5
157.5°	758.9	760.0	760.2	759.4	758.7	757.9	757.1
160°	771.5	772.4	772.5	771.9	771.3	770.7	770.1
162.5°	783.1	784.1	784.2	783.4	782.8	782.0	781.3
165°	797.8	798.9	799.1	798.2	797.5	796.7	796.0
167.5°	809.9	811.1	811.2	810.4	809.5	808.8	807.9
170°	816.7	817.7	817.8	816.9	816.0	815.0	814.1
172.5°	821.7	822.8	822.8	822.0	821.0	820.1	819.2
175°	827.2	828.3	828.3	827.4	826.5	825.6	824.6
177.5°	829.3	830.1	830.1	829.3	828.6	827.8	827.1
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8

(END OF REPORT)