

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: P331810-840

Luminaire Tested: **S122RDIW-S675D710U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331810-840
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-S675D710U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 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: 5050.5 lumens
Efficiency: N/A
Efficacy: 112.2 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: General Diffuse

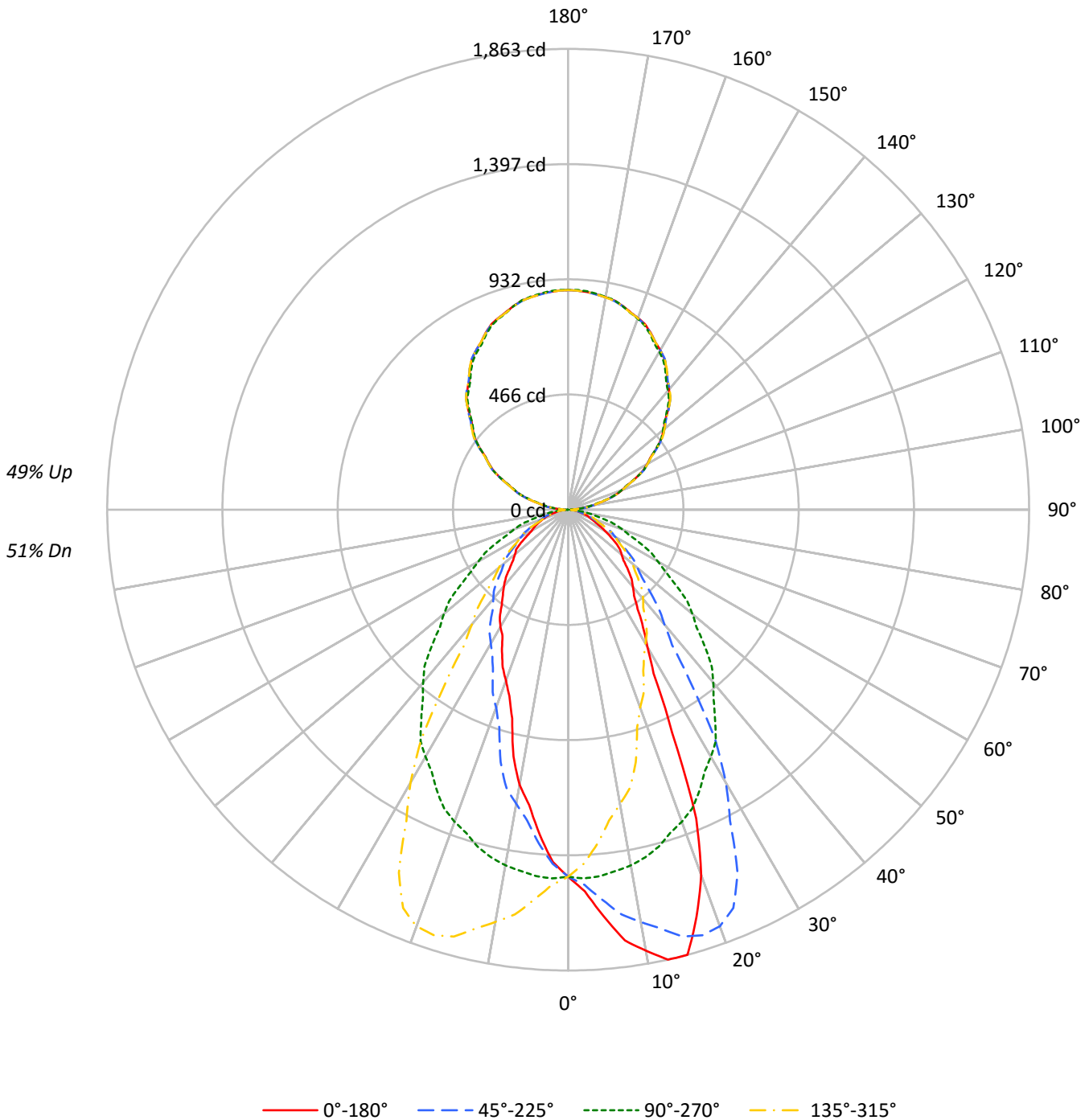
Input Watts (W): 45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-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	50	30	10	50	30	10	0		
RCR																										
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51	51	51	51	51	51		
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	51	50	50	44	44	44	44	44	44	44		
2	91	84	78	73	84	78	73	68	66	63	60	56	53	51	46	45	43	38	38	38	38	38	38	38		
3	83	74	67	62	77	69	63	58	59	55	51	50	47	44	42	40	38	34	34	34	34	34	34	34		
4	77	66	59	53	71	62	55	50	53	48	44	45	42	39	38	35	33	30	30	30	30	30	30	30		
5	71	60	52	46	65	56	49	44	48	43	39	41	37	34	35	32	30	26	26	26	26	26	26	26		
6	65	54	46	41	60	50	44	39	44	38	35	38	34	30	32	29	27	24	24	24	24	24	24	24		
7	61	49	41	36	56	46	39	34	40	35	31	35	30	27	29	26	24	21	21	21	21	21	21	21		
8	57	45	37	32	52	42	35	31	37	32	28	32	28	25	27	24	22	20	20	20	20	20	20	20		
9	53	41	34	29	49	39	32	28	34	29	25	30	25	23	25	22	20	18	18	18	18	18	18	18		
10	50	38	31	26	46	36	29	25	31	26	23	27	23	21	24	21	18	16	16	16	16	16	16	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23954	23954	23954	23954
5°	26752	24104	21371	24104
10°	29681	23935	18525	23935
15°	31141	23584	14596	23584
20°	26996	23063	12631	23063
25°	17706	22352	11277	22352
30°	11917	21490	10206	21490
35°	9652	20402	9207	20402
40°	8585	19220	8517	19220
45°	7768	17831	7606	17831
50°	7068	16458	7043	16458
55°	6646	14933	6559	14933
60°	5561	13533	5493	13533
65°	4688	12287	5318	12287
70°	4334	10976	5013	10976
75°	4049	9551	4629	9551
80°	3738	7857	4119	7857
85°	3446	6206	3631	6206



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.8
10°-20°	391.9	7.8
20°-30°	505.0	10.0
30°-40°	479.9	9.5
40°-50°	411.1	8.1
50°-60°	313.0	6.2
60°-70°	197.9	3.9
70°-80°	98.8	2.0
80°-90°	29.3	0.6
90°-100°	56.3	1.1
100°-110°	174.8	3.5
110°-120°	298.7	5.9
120°-130°	392.8	7.8
130°-140°	440.9	8.7
140°-150°	432.3	8.6
150°-160°	362.6	7.2
160°-170°	240.5	4.8
170°-180°	84.1	1.7
0°-30°	1037.5	20.5
0°-40°	1517.4	30.0
0°-60°	2241.5	44.4
0°-90°	2567.5	50.8
90°-120°	529.8	10.5
90°-150°	1795.8	35.6
90°-180°	2483.0	49.2
0°-180°	5050.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1484	1484	1484	1484	1484	
5°	1651	1487	1319	1487	1651	163
15°	1863	1411	873	1411	1863	503
25°	994	1255	633	1255	994	472
35°	490	1035	467	1035	490	313
45°	340	781	333	781	340	263
55°	236	530	233	530	236	207
65°	123	322	139	322	123	125
75°	65	153	74	153	65	69
85°	19	34	20	34	19	21
90°	25	1	25	1	25	12
95°	46	39	46	39	46	52
105°	166	161	166	161	166	175
115°	300	300	300	300	300	296
125°	438	436	438	436	438	390
135°	571	564	571	564	571	440
145°	692	685	692	685	692	432
155°	789	783	789	783	789	363
165°	853	852	853	852	853	241
175°	884	886	884	886	884	84
180°	888	888	888	888	888	



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1543.8	1545.0	1546.3	1543.4	1543.4	1540.9	1535.5	1531.5	1519.8	1518.2	1518.2
5°	1650.6	1649.5	1651.6	1645.0	1635.7	1633.6	1623.8	1610.9	1597.5	1582.6	1579.4
7.5°	1756.8	1755.2	1751.1	1750.0	1742.8	1727.3	1711.5	1694.8	1672.4	1650.7	1639.8
10°	1810.4	1827.5	1817.1	1799.1	1802.7	1778.5	1765.5	1743.4	1724.8	1692.3	1685.2
12.5°	1863.2	1869.9	1866.6	1856.3	1851.7	1834.9	1817.6	1798.3	1764.0	1734.8	1709.5
15°	1863.0	1872.8	1875.3	1872.3	1874.8	1873.8	1864.5	1848.6	1818.7	1786.7	1758.9
17.5°	1725.5	1732.2	1749.2	1760.6	1775.0	1805.5	1820.6	1826.4	1822.0	1803.8	1784.2
20°	1571.2	1559.8	1607.3	1631.5	1652.1	1703.6	1748.0	1765.0	1792.3	1791.8	1786.7
22.5°	1352.6	1355.3	1400.3	1429.1	1489.2	1540.8	1591.3	1655.4	1708.2	1743.1	1763.6
25°	993.9	1013.5	1058.3	1097.5	1164.5	1260.4	1347.5	1448.6	1543.9	1619.1	1690.8
27.5°	746.4	747.9	783.5	819.6	859.4	938.0	1047.6	1168.3	1304.2	1416.4	1545.5
30°	639.2	636.1	651.1	673.3	707.2	768.1	850.5	969.2	1104.7	1273.7	1424.3
32.5°	563.3	563.5	574.8	591.2	619.5	660.5	716.9	813.2	941.4	1107.6	1284.0
35°	489.7	489.2	497.5	509.3	521.2	547.4	586.1	636.6	724.8	879.9	1060.4
37.5°	437.0	439.2	443.2	450.6	463.7	478.4	501.6	535.5	598.2	690.0	841.7
40°	407.3	408.3	413.9	420.1	427.9	439.2	458.3	485.5	531.5	604.7	715.5
42.5°	380.0	381.0	385.1	390.8	396.9	408.3	424.0	447.7	484.8	542.0	633.4
45°	340.2	340.2	343.9	346.4	353.1	363.5	376.3	395.9	421.7	463.9	524.7
47.5°	302.9	303.0	305.4	309.8	314.1	322.0	334.8	350.7	369.5	402.2	454.1
50°	281.4	282.0	283.5	287.1	289.7	296.9	306.7	320.6	340.2	365.5	408.8
52.5°	264.2	263.8	265.8	267.3	269.1	274.3	281.6	293.9	311.3	333.4	369.2
55°	236.1	234.0	237.1	239.7	241.3	243.3	247.4	255.2	270.1	288.7	315.5
57.5°	201.1	200.3	202.4	204.8	209.6	215.2	218.6	223.6	231.4	244.7	271.2
60°	172.2	172.2	176.8	178.3	184.0	191.3	198.4	202.6	210.4	219.0	238.6
62.5°	146.6	147.0	149.2	150.8	153.9	162.8	172.9	182.0	189.2	197.6	210.7
65°	122.7	123.7	123.7	124.7	126.8	128.9	133.0	140.2	153.1	164.9	174.7
67.5°	104.1	104.4	104.7	105.7	106.3	108.6	110.2	113.4	116.4	127.6	139.8
70°	91.8	93.3	92.8	93.8	94.3	95.3	97.5	99.0	103.6	106.2	113.4
72.5°	80.2	81.3	81.2	81.9	83.2	83.4	85.0	86.6	89.6	91.8	95.6
75°	64.9	64.4	64.9	65.9	66.4	67.1	67.1	69.1	70.6	72.7	75.2
77.5°	50.1	50.6	50.5	50.6	50.7	51.6	51.5	52.5	54.0	55.0	56.2
80°	40.2	40.7	40.2	40.7	41.2	41.7	41.2	41.7	43.3	44.3	44.3
82.5°	31.1	31.2	31.5	31.6	31.7	31.8	32.6	32.7	33.8	33.6	34.0
85°	18.6	18.1	18.1	18.1	18.6	19.1	18.6	18.6	19.1	19.1	19.1
87.5°	11.7	12.1	12.0	12.0	12.0	12.0	12.0	12.5	12.2	12.6	11.5
90°	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5	25.9	26.3	22.5
92.5°	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9	23.9	23.8	22.9
95°	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0	48.0	48.0	47.7
97.5°	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.0
100°	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4	103.4	103.4	102.9
102.5°	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3	128.2	127.9	127.3
105°	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5	165.2	164.9	164.5
107.5°	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7	205.6	205.5	205.5
110°	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1	233.1	233.1	233.1



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4	260.8	261.3	261.4
115°	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5	302.6	302.8	303.1
117.5°	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1	343.5	343.9	344.8
120°	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2	370.2	370.2	371.5
122.5°	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2	398.6	399.0	399.9
125°	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6	440.1	440.6	441.1
127.5°	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9	480.5	481.1	481.7
130°	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5	507.8	508.1	508.4
132.5°	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2	534.9	535.6	535.6
135°	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7	573.8	574.0	573.7
137.5°	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5	611.7	611.8	611.4
140°	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9	636.9	636.9	636.1
142.5°	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0	659.8	659.7	659.1
145°	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0	694.8	694.7	693.7
147.5°	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7	725.3	725.0	724.3
150°	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1	744.7	744.2	743.5
152.5°	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6	764.0	763.4	762.5
155°	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2	788.4	787.6	787.1
157.5°	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0	810.9	809.8	809.5
160°	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6	824.6	823.5	823.3
162.5°	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8	836.7	835.6	835.4
165°	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6	852.4	851.3	851.3
167.5°	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7	865.5	864.3	864.3
170°	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8	872.7	871.5	871.7
172.5°	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3	878.1	876.9	877.1
175°	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0	883.9	882.7	883.1
177.5°	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8	887.0	886.2	886.5
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1519.0	1515.7	1512.9	1505.4	1501.8	1493.5	1492.3	1491.9	1481.1	1470.8	1467.9
5°	1571.2	1563.0	1550.5	1536.1	1521.2	1505.7	1495.4	1487.2	1466.5	1446.9	1435.6
7.5°	1623.8	1606.1	1584.7	1557.4	1534.6	1509.0	1490.1	1473.1	1443.8	1415.7	1396.8
10°	1662.9	1634.1	1605.8	1568.1	1538.7	1509.8	1483.1	1459.9	1426.8	1389.8	1363.4
12.5°	1687.3	1655.6	1616.5	1579.6	1541.7	1504.9	1469.1	1439.3	1400.5	1362.1	1330.9
15°	1720.2	1686.2	1638.7	1586.2	1537.2	1489.2	1448.0	1410.9	1360.4	1314.5	1276.4
17.5°	1747.1	1700.3	1649.3	1588.5	1531.9	1470.9	1417.7	1370.4	1314.1	1258.8	1213.9
20°	1755.8	1709.4	1650.6	1589.7	1522.8	1451.1	1393.9	1342.3	1282.0	1221.7	1170.1
22.5°	1750.4	1714.3	1648.9	1576.2	1507.5	1432.5	1367.9	1308.1	1241.2	1179.6	1119.8
25°	1714.0	1701.6	1639.8	1560.3	1482.1	1394.9	1320.2	1254.7	1178.4	1112.5	1047.4
27.5°	1629.1	1655.9	1617.5	1533.0	1445.8	1352.4	1268.4	1193.9	1114.7	1040.5	975.7
30°	1547.5	1608.8	1592.4	1514.0	1416.5	1324.8	1230.5	1152.7	1068.1	991.8	927.9
32.5°	1435.7	1537.1	1553.2	1487.6	1386.8	1286.1	1187.2	1109.7	1021.5	941.1	878.8
35°	1257.8	1409.4	1478.9	1437.1	1336.2	1227.4	1125.3	1035.1	946.4	867.1	805.2
37.5°	1045.5	1251.9	1367.9	1370.9	1278.1	1165.0	1053.9	964.3	873.5	795.6	728.7
40°	907.8	1131.5	1282.5	1316.1	1237.7	1115.5	1003.1	911.9	823.2	746.9	670.1
42.5°	784.1	1006.9	1192.7	1250.9	1188.6	1067.2	954.5	859.1	773.0	700.7	622.3
45°	634.1	828.9	1033.6	1137.7	1103.2	990.8	871.7	780.9	700.0	637.6	562.4
47.5°	534.8	672.2	870.2	1011.1	1010.5	907.9	790.7	703.9	628.8	570.4	509.4
50°	478.4	597.9	765.5	925.3	938.7	852.6	741.2	655.2	585.1	523.7	474.7
52.5°	427.7	526.2	676.8	830.0	868.2	793.7	685.6	606.1	538.1	481.7	439.7
55°	361.3	437.7	552.1	695.4	753.2	700.5	604.7	530.5	475.2	427.9	391.7
57.5°	305.7	362.9	454.7	570.2	637.3	604.3	525.1	464.8	417.7	374.8	346.3
60°	270.6	317.5	395.4	491.8	566.0	542.8	475.2	419.1	378.9	341.7	315.0
62.5°	237.6	277.9	344.7	422.9	491.0	481.4	426.2	379.1	343.9	310.0	287.3
65°	191.3	220.7	272.7	334.1	388.7	393.3	353.7	321.6	290.2	263.4	243.3
67.5°	152.3	171.5	208.1	259.8	300.7	315.4	291.1	266.7	241.8	221.1	203.6
70°	128.4	143.8	170.7	212.4	250.0	265.5	251.6	232.5	210.9	193.8	178.8
72.5°	104.0	119.1	138.9	169.5	201.8	218.4	213.6	200.0	182.4	168.2	154.1
75°	78.4	83.0	96.4	117.0	142.3	156.7	160.4	153.1	139.2	128.4	120.1
77.5°	58.0	60.7	67.2	78.0	94.4	107.3	112.6	111.8	102.2	95.8	88.2
80°	46.4	48.0	51.0	55.6	68.1	80.9	84.5	84.5	77.9	75.2	67.6
82.5°	35.2	36.4	38.3	40.8	46.6	57.9	61.9	62.7	58.5	55.0	49.0
85°	20.1	19.6	20.6	22.1	23.2	26.3	32.5	33.5	32.5	28.4	26.8
87.5°	10.8	10.5	9.7	8.8	8.8	8.8	10.4	12.1	10.9	10.0	9.6
90°	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7	2.7	4.7	6.8
92.5°	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3	14.8	16.3	17.8
95°	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0	40.6	42.3	43.9
97.5°	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2	72.6	74.1	75.5
100°	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1	96.5	97.9	99.2
102.5°	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4	121.4	122.5	123.5
105°	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1	161.6	162.1	162.6
107.5°	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2	202.9	203.7	204.4
110°	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5	229.5	230.6	231.6



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3	258.3	259.3	260.3
115°	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7	300.7	301.7	302.8
117.5°	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0	343.4	344.7	346.0
120°	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	371.5	372.8	374.2
122.5°	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0	397.6	399.2	400.7
125°	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2	437.7	439.1	440.6
127.5°	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2	477.2	479.1	480.9
130°	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8	502.0	504.1	506.3
132.5°	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5	529.2	531.0	532.7
135°	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3	566.1	567.9	569.8
137.5°	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1	604.6	606.1	607.6
140°	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5	627.9	629.4	631.0
142.5°	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5	652.0	653.5	655.0
145°	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9	686.1	687.2	688.4
147.5°	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7	717.0	718.4	719.8
150°	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6	737.6	738.6	739.6
152.5°	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2	756.2	757.2	758.2
155°	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0	783.6	784.1	784.6
157.5°	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9	807.3	807.6	807.9
160°	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3	821.6	821.9	822.3
162.5°	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5	834.6	834.7	834.7
165°	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0	851.8	851.7	851.5
167.5°	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8	866.3	865.8	865.3
170°	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5	874.0	873.5	873.0
172.5°	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9	879.4	878.9	878.4
175°	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5	886.1	885.6	885.0
177.5°	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2	888.8	888.4	888.0
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1462.6	1459.7	1454.3	1446.0	1441.1	1432.4	1426.6	1430.0	1430.8	1430.0	1429.2
5°	1423.3	1412.4	1397.5	1383.0	1369.7	1355.2	1347.0	1343.3	1336.2	1332.0	1330.0
7.5°	1375.7	1357.1	1336.0	1310.8	1289.4	1267.1	1255.7	1249.9	1235.2	1227.2	1220.1
10°	1340.3	1310.9	1289.8	1256.8	1236.7	1207.3	1187.2	1187.7	1167.6	1156.2	1148.0
12.5°	1301.1	1268.8	1233.7	1204.0	1176.0	1152.5	1128.2	1118.4	1097.0	1086.1	1063.9
15°	1236.2	1198.5	1161.4	1121.2	1092.9	1056.2	1021.2	978.4	943.8	913.9	905.7
17.5°	1165.2	1118.6	1081.4	1034.2	985.6	924.0	883.4	858.6	837.8	822.0	810.2
20°	1116.5	1069.1	1029.5	958.3	892.8	851.1	821.2	802.1	780.4	763.5	754.2
22.5°	1065.4	1015.9	961.8	882.4	831.4	797.9	771.2	749.3	734.7	721.3	713.0
25°	992.8	938.7	849.5	794.9	753.7	718.6	700.0	686.6	671.2	653.1	644.9
27.5°	916.1	830.0	766.0	725.4	686.0	663.2	646.5	626.5	612.7	604.6	596.0
30°	858.8	772.7	722.8	678.4	650.6	625.3	605.7	594.4	581.0	567.0	561.4
32.5°	794.9	726.1	678.2	641.3	613.0	591.5	576.0	557.6	548.0	539.4	527.6
35°	715.5	663.5	619.7	589.8	562.9	545.4	527.4	516.5	499.0	491.8	487.2
37.5°	648.2	603.1	570.5	538.9	517.7	498.3	487.3	470.0	462.4	452.4	442.6
40°	610.4	566.0	534.5	508.8	485.0	470.6	456.8	442.8	431.4	426.9	415.0
42.5°	571.6	535.5	504.0	475.7	459.9	444.6	427.1	416.9	405.1	397.6	390.2
45°	518.1	486.1	459.3	436.1	418.6	402.6	391.2	374.3	367.6	352.5	346.4
47.5°	471.1	441.3	415.8	393.7	376.6	366.2	349.6	336.3	325.6	316.4	308.5
50°	437.7	412.9	388.2	368.6	353.1	338.2	321.1	314.5	297.9	293.3	288.7
52.5°	407.2	383.6	360.9	341.7	326.3	311.7	296.8	288.0	276.9	272.3	268.9
55°	364.5	341.7	320.1	303.1	287.6	272.7	263.4	252.6	247.4	243.8	239.7
57.5°	321.5	301.1	284.6	267.3	251.8	239.9	229.1	222.7	217.3	212.6	207.6
60°	294.4	274.8	259.8	243.8	227.8	218.0	209.8	202.1	195.9	188.6	186.6
62.5°	265.5	248.3	234.7	219.0	205.2	196.2	188.3	181.1	173.6	163.1	160.2
65°	225.8	212.4	197.9	185.1	172.7	163.9	152.6	144.3	141.3	140.2	139.7
67.5°	190.0	177.2	164.8	151.7	140.4	132.3	126.5	125.2	123.1	122.5	121.1
70°	166.0	154.1	141.8	129.4	118.6	117.0	114.9	112.9	110.3	109.3	108.3
72.5°	144.5	132.3	119.9	110.0	105.3	103.4	101.4	99.3	97.6	96.5	95.8
75°	110.8	99.5	91.3	87.7	85.0	83.5	80.4	78.9	77.9	76.2	75.7
77.5°	79.8	73.4	69.6	67.4	64.6	63.0	61.2	59.7	58.6	58.3	57.5
80°	60.8	57.8	55.1	52.1	51.0	49.0	48.5	47.0	47.5	45.8	45.8
82.5°	47.3	43.3	41.1	39.7	38.7	37.1	36.5	35.7	35.9	34.7	34.7
85°	24.2	23.2	22.1	21.1	21.1	19.6	20.1	19.6	19.6	18.6	18.1
87.5°	9.6	9.7	9.7	10.4	11.1	11.4	11.4	10.9	10.8	10.7	10.3
90°	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5	25.2	24.9	24.8
92.5°	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9	24.0	24.1	24.1
95°	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0	48.0	48.0	47.8
97.5°	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6	80.6	80.6	80.6
100°	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4	103.4	103.4	103.3
102.5°	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3	128.4	128.6	128.6
105°	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5	165.8	166.2	166.3
107.5°	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7	205.9	206.0	205.7
110°	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	232.8



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4	260.0	259.6	259.2
115°	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5	302.3	302.1	301.7
117.5°	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1	342.6	342.2	341.7
120°	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2	370.2	370.2	369.9
122.5°	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2	397.8	397.4	397.0
125°	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6	439.1	438.6	438.3
127.5°	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9	479.3	478.7	478.2
130°	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5	507.1	506.8	506.2
132.5°	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2	533.4	532.7	532.1
135°	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7	573.5	573.4	573.0
137.5°	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5	611.4	611.3	610.9
140°	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9	636.9	636.9	636.6
142.5°	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0	660.1	660.2	660.0
145°	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0	695.2	695.3	695.1
147.5°	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7	726.0	726.4	726.3
150°	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1	745.6	746.1	746.1
152.5°	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6	765.2	765.9	765.9
155°	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2	790.1	790.9	791.1
157.5°	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0	813.1	814.3	814.5
160°	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6	826.6	827.6	827.7
162.5°	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8	839.0	840.1	840.2
165°	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6	854.7	856.0	856.2
167.5°	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7	867.8	869.0	869.1
170°	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8	875.0	876.2	876.3
172.5°	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3	880.4	881.6	881.6
175°	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0	886.3	887.5	887.5
177.5°	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8	888.6	889.4	889.4
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1424.6	1425.4	1424.2	1425.0	1424.2	1425.4	1424.6	1429.2	1430.0	1430.8	1430.0
5°	1327.4	1321.2	1320.2	1318.6	1320.2	1321.2	1327.4	1330.0	1332.0	1336.2	1343.3
7.5°	1211.3	1210.3	1207.8	1204.2	1207.8	1210.3	1211.3	1220.1	1227.2	1235.2	1249.9
10°	1136.6	1134.1	1133.6	1129.9	1133.6	1134.1	1136.6	1148.0	1156.2	1167.6	1187.7
12.5°	1049.2	1032.6	1030.9	1021.9	1030.9	1032.6	1049.2	1063.9	1086.1	1097.0	1118.4
15°	893.3	890.3	879.9	873.2	879.9	890.3	893.3	905.7	913.9	943.8	978.4
17.5°	804.3	794.2	790.9	789.5	790.9	794.2	804.3	810.2	822.0	837.8	858.6
20°	746.9	737.7	736.1	735.1	736.1	737.7	746.9	754.2	763.5	780.4	802.1
22.5°	707.3	697.6	693.7	690.5	693.7	697.6	707.3	713.0	721.3	734.7	749.3
25°	639.7	636.1	634.1	633.0	634.1	636.1	639.7	644.9	653.1	671.2	686.6
27.5°	586.8	578.9	577.3	574.7	577.3	578.9	586.8	596.0	604.6	612.7	626.5
30°	556.7	554.1	550.6	547.4	550.6	554.1	556.7	561.4	567.0	581.0	594.4
32.5°	521.3	519.1	515.9	514.4	515.9	519.1	521.3	527.6	539.4	548.0	557.6
35°	482.0	474.7	471.7	467.1	471.7	474.7	482.0	487.2	491.8	499.0	516.5
37.5°	440.4	436.7	432.3	433.8	432.3	436.7	440.4	442.6	452.4	462.4	470.0
40°	408.3	405.7	404.7	404.1	404.7	405.7	408.3	415.0	426.9	431.4	442.8
42.5°	382.7	375.6	372.9	372.8	372.9	375.6	382.7	390.2	397.6	405.1	416.9
45°	343.9	337.1	332.4	333.1	332.4	337.1	343.9	346.4	352.5	367.6	374.3
47.5°	304.1	303.9	300.9	301.8	300.9	303.9	304.1	308.5	316.4	325.6	336.3
50°	285.1	282.0	279.9	280.4	279.9	282.0	285.1	288.7	293.3	297.9	314.5
52.5°	266.9	264.3	262.6	264.8	262.6	264.3	266.9	268.9	272.3	276.9	288.0
55°	237.1	234.0	233.5	233.0	233.5	234.0	237.1	239.7	243.8	247.4	252.6
57.5°	203.8	201.8	198.6	197.3	198.6	201.8	203.8	207.6	212.6	217.3	222.7
60°	179.9	175.8	170.7	170.1	170.7	175.8	179.9	186.6	188.6	195.9	202.1
62.5°	158.0	157.2	156.2	156.1	156.2	157.2	158.0	160.2	163.1	173.6	181.1
65°	138.7	138.1	138.7	139.2	138.7	138.1	138.7	139.7	140.2	141.3	144.3
67.5°	120.9	119.9	119.0	119.4	119.0	119.9	120.9	121.1	122.5	123.1	125.2
70°	107.2	106.7	106.2	106.2	106.2	106.7	107.2	108.3	109.3	110.3	112.9
72.5°	94.0	93.9	93.4	93.0	93.4	93.9	94.0	95.8	96.5	97.6	99.3
75°	75.2	74.2	74.2	74.2	74.2	74.2	75.2	75.7	76.2	77.9	78.9
77.5°	57.4	56.9	56.2	55.8	56.2	56.9	57.4	57.5	58.3	58.6	59.7
80°	45.3	44.8	44.3	44.3	44.3	44.8	45.3	45.8	45.8	47.5	47.0
82.5°	34.6	34.1	34.0	33.6	34.0	34.1	34.6	34.7	34.7	35.9	35.7
85°	18.6	19.1	18.6	19.6	18.6	19.1	18.6	18.1	18.6	19.6	19.6
87.5°	10.4	10.0	10.4	10.0	10.4	10.0	10.4	10.3	10.7	10.8	10.9
90°	24.9	25.1	25.3	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5
92.5°	24.1	24.2	24.2	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9
95°	47.5	47.2	46.8	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0
97.5°	80.6	80.6	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6
100°	103.2	103.0	102.8	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4
102.5°	128.4	128.2	128.1	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3
105°	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5
107.5°	204.9	204.2	203.4	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7
110°	232.3	231.8	231.3	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	258.9	258.5	258.1	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4
115°	301.2	300.7	300.2	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5
117.5°	341.2	340.7	340.2	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1
120°	369.4	368.9	368.4	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2
122.5°	396.6	396.3	395.9	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2
125°	438.2	438.0	437.8	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6
127.5°	477.6	477.1	476.6	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9
130°	505.5	504.9	504.2	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5
132.5°	531.6	531.0	530.5	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2
135°	572.5	572.0	571.5	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7
137.5°	610.2	609.6	608.8	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5
140°	636.0	635.3	634.6	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9
142.5°	659.3	658.6	658.0	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0
145°	694.4	693.8	693.1	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0
147.5°	725.7	725.0	724.4	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7
150°	745.6	745.1	744.7	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1
152.5°	765.2	764.6	764.0	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6
155°	790.6	790.1	789.6	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2
157.5°	813.6	812.8	812.0	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0
160°	827.1	826.4	825.8	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6
162.5°	839.4	838.7	837.9	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8
165°	855.3	854.4	853.6	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6
167.5°	868.3	867.4	866.6	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7
170°	875.3	874.2	873.2	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8
172.5°	880.7	879.7	878.7	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3
175°	886.5	885.6	884.5	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0
177.5°	888.6	887.8	887.0	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1426.6	1432.4	1441.1	1446.0	1454.3	1459.7	1462.6	1467.9	1470.8	1481.1	1491.9
5°	1347.0	1355.2	1369.7	1383.0	1397.5	1412.4	1423.3	1435.6	1446.9	1466.5	1487.2
7.5°	1255.7	1267.1	1289.4	1310.8	1336.0	1357.1	1375.7	1396.8	1415.7	1443.8	1473.1
10°	1187.2	1207.3	1236.7	1256.8	1289.8	1310.9	1340.3	1363.4	1389.8	1426.8	1459.9
12.5°	1128.2	1152.5	1176.0	1204.0	1233.7	1268.8	1301.1	1330.9	1362.1	1400.5	1439.3
15°	1021.2	1056.2	1092.9	1121.2	1161.4	1198.5	1236.2	1276.4	1314.5	1360.4	1410.9
17.5°	883.4	924.0	985.6	1034.2	1081.4	1118.6	1165.2	1213.9	1258.8	1314.1	1370.4
20°	821.2	851.1	892.8	958.3	1029.5	1069.1	1116.5	1170.1	1221.7	1282.0	1342.3
22.5°	771.2	797.9	831.4	882.4	961.8	1015.9	1065.4	1119.8	1179.6	1241.2	1308.1
25°	700.0	718.6	753.7	794.9	849.5	938.7	992.8	1047.4	1112.5	1178.4	1254.7
27.5°	646.5	663.2	686.0	725.4	766.0	830.0	916.1	975.7	1040.5	1114.7	1193.9
30°	605.7	625.3	650.6	678.4	722.8	772.7	858.8	927.9	991.8	1068.1	1152.7
32.5°	576.0	591.5	613.0	641.3	678.2	726.1	794.9	878.8	941.1	1021.5	1109.7
35°	527.4	545.4	562.9	589.8	619.7	663.5	715.5	805.2	867.1	946.4	1035.1
37.5°	487.3	498.3	517.7	538.9	570.5	603.1	648.2	728.7	795.6	873.5	964.3
40°	456.8	470.6	485.0	508.8	534.5	566.0	610.4	670.1	746.9	823.2	911.9
42.5°	427.1	444.6	459.9	475.7	504.0	535.5	571.6	622.3	700.7	773.0	859.1
45°	391.2	402.6	418.6	436.1	459.3	486.1	518.1	562.4	637.6	700.0	780.9
47.5°	349.6	366.2	376.6	393.7	415.8	441.3	471.1	509.4	570.4	628.8	703.9
50°	321.1	338.2	353.1	368.6	388.2	412.9	437.7	474.7	523.7	585.1	655.2
52.5°	296.8	311.7	326.3	341.7	360.9	383.6	407.2	439.7	481.7	538.1	606.1
55°	263.4	272.7	287.6	303.1	320.1	341.7	364.5	391.7	427.9	475.2	530.5
57.5°	229.1	239.9	251.8	267.3	284.6	301.1	321.5	346.3	374.8	417.7	464.8
60°	209.8	218.0	227.8	243.8	259.8	274.8	294.4	315.0	341.7	378.9	419.1
62.5°	188.3	196.2	205.2	219.0	234.7	248.3	265.5	287.3	310.0	343.9	379.1
65°	152.6	163.9	172.7	185.1	197.9	212.4	225.8	243.3	263.4	290.2	321.6
67.5°	126.5	132.3	140.4	151.7	164.8	177.2	190.0	203.6	221.1	241.8	266.7
70°	114.9	117.0	118.6	129.4	141.8	154.1	166.0	178.8	193.8	210.9	232.5
72.5°	101.4	103.4	105.3	110.0	119.9	132.3	144.5	154.1	168.2	182.4	200.0
75°	80.4	83.5	85.0	87.7	91.3	99.5	110.8	120.1	128.4	139.2	153.1
77.5°	61.2	63.0	64.6	67.4	69.6	73.4	79.8	88.2	95.8	102.2	111.8
80°	48.5	49.0	51.0	52.1	55.1	57.8	60.8	67.6	75.2	77.9	84.5
82.5°	36.5	37.1	38.7	39.7	41.1	43.3	47.3	49.0	55.0	58.5	62.7
85°	20.1	19.6	21.1	21.1	22.1	23.2	24.2	26.8	28.4	32.5	33.5
87.5°	11.4	11.4	11.1	10.4	9.7	9.7	9.6	9.6	10.0	10.9	12.1
90°	25.9	26.3	22.5	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7
92.5°	23.9	23.8	22.9	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3
95°	48.0	48.0	47.7	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0
97.5°	80.6	80.6	80.0	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2
100°	103.4	103.4	102.9	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1
102.5°	128.2	127.9	127.3	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4
105°	165.2	164.9	164.5	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1
107.5°	205.6	205.5	205.5	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2
110°	233.1	233.1	233.1	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.8	261.3	261.4	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3
115°	302.6	302.8	303.1	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7
117.5°	343.5	343.9	344.8	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0
120°	370.2	370.2	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2
122.5°	398.6	399.0	399.9	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0
125°	440.1	440.6	441.1	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2
127.5°	480.5	481.1	481.7	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2
130°	507.8	508.1	508.4	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8
132.5°	534.9	535.6	535.6	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5
135°	573.8	574.0	573.7	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3
137.5°	611.7	611.8	611.4	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1
140°	636.9	636.9	636.1	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5
142.5°	659.8	659.7	659.1	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5
145°	694.8	694.7	693.7	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9
147.5°	725.3	725.0	724.3	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7
150°	744.7	744.2	743.5	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6
152.5°	764.0	763.4	762.5	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2
155°	788.4	787.6	787.1	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0
157.5°	810.9	809.8	809.5	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9
160°	824.6	823.5	823.3	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3
162.5°	836.7	835.6	835.4	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5
165°	852.4	851.3	851.3	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0
167.5°	865.5	864.3	864.3	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8
170°	872.7	871.5	871.7	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5
172.5°	878.1	876.9	877.1	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9
175°	883.9	882.7	883.1	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5
177.5°	887.0	886.2	886.5	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1492.3	1493.5	1501.8	1505.4	1512.9	1515.7	1519.0	1518.2	1518.2	1519.8	1531.5
5°	1495.4	1505.7	1521.2	1536.1	1550.5	1563.0	1571.2	1579.4	1582.6	1597.5	1610.9
7.5°	1490.1	1509.0	1534.6	1557.4	1584.7	1606.1	1623.8	1639.8	1650.7	1672.4	1694.8
10°	1483.1	1509.8	1538.7	1568.1	1605.8	1634.1	1662.9	1685.2	1692.3	1724.8	1743.4
12.5°	1469.1	1504.9	1541.7	1579.6	1616.5	1655.6	1687.3	1709.5	1734.8	1764.0	1798.3
15°	1448.0	1489.2	1537.2	1586.2	1638.7	1686.2	1720.2	1758.9	1786.7	1818.7	1848.6
17.5°	1417.7	1470.9	1531.9	1588.5	1649.3	1700.3	1747.1	1784.2	1803.8	1822.0	1826.4
20°	1393.9	1451.1	1522.8	1589.7	1650.6	1709.4	1755.8	1786.7	1791.8	1792.3	1765.0
22.5°	1367.9	1432.5	1507.5	1576.2	1648.9	1714.3	1750.4	1763.6	1743.1	1708.2	1655.4
25°	1320.2	1394.9	1482.1	1560.3	1639.8	1701.6	1714.0	1690.8	1619.1	1543.9	1448.6
27.5°	1268.4	1352.4	1445.8	1533.0	1617.5	1655.9	1629.1	1545.5	1416.4	1304.2	1168.3
30°	1230.5	1324.8	1416.5	1514.0	1592.4	1608.8	1547.5	1424.3	1273.7	1104.7	969.2
32.5°	1187.2	1286.1	1386.8	1487.6	1553.2	1537.1	1435.7	1284.0	1107.6	941.4	813.2
35°	1125.3	1227.4	1336.2	1437.1	1478.9	1409.4	1257.8	1060.4	879.9	724.8	636.6
37.5°	1053.9	1165.0	1278.1	1370.9	1367.9	1251.9	1045.5	841.7	690.0	598.2	535.5
40°	1003.1	1115.5	1237.7	1316.1	1282.5	1131.5	907.8	715.5	604.7	531.5	485.5
42.5°	954.5	1067.2	1188.6	1250.9	1192.7	1006.9	784.1	633.4	542.0	484.8	447.7
45°	871.7	990.8	1103.2	1137.7	1033.6	828.9	634.1	524.7	463.9	421.7	395.9
47.5°	790.7	907.9	1010.5	1011.1	870.2	672.2	534.8	454.1	402.2	369.5	350.7
50°	741.2	852.6	938.7	925.3	765.5	597.9	478.4	408.8	365.5	340.2	320.6
52.5°	685.6	793.7	868.2	830.0	676.8	526.2	427.7	369.2	333.4	311.3	293.9
55°	604.7	700.5	753.2	695.4	552.1	437.7	361.3	315.5	288.7	270.1	255.2
57.5°	525.1	604.3	637.3	570.2	454.7	362.9	305.7	271.2	244.7	231.4	223.6
60°	475.2	542.8	566.0	491.8	395.4	317.5	270.6	238.6	219.0	210.4	202.6
62.5°	426.2	481.4	491.0	422.9	344.7	277.9	237.6	210.7	197.6	189.2	182.0
65°	353.7	393.3	388.7	334.1	272.7	220.7	191.3	174.7	164.9	153.1	140.2
67.5°	291.1	315.4	300.7	259.8	208.1	171.5	152.3	139.8	127.6	116.4	113.4
70°	251.6	265.5	250.0	212.4	170.7	143.8	128.4	113.4	106.2	103.6	99.0
72.5°	213.6	218.4	201.8	169.5	138.9	119.1	104.0	95.6	91.8	89.6	86.6
75°	160.4	156.7	142.3	117.0	96.4	83.0	78.4	75.2	72.7	70.6	69.1
77.5°	112.6	107.3	94.4	78.0	67.2	60.7	58.0	56.2	55.0	54.0	52.5
80°	84.5	80.9	68.1	55.6	51.0	48.0	46.4	44.3	44.3	43.3	41.7
82.5°	61.9	57.9	46.6	40.8	38.3	36.4	35.2	34.0	33.6	33.8	32.7
85°	32.5	26.3	23.2	22.1	20.6	19.6	20.1	19.1	19.1	19.1	18.6
87.5°	10.4	8.8	8.8	8.8	9.7	10.5	10.8	11.5	12.6	12.2	12.5
90°	2.7	4.7	6.8	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5
92.5°	14.8	16.3	17.8	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9
95°	40.6	42.3	43.9	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0
97.5°	72.6	74.1	75.5	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6
100°	96.5	97.9	99.2	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4
102.5°	121.4	122.5	123.5	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3
105°	161.6	162.1	162.6	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5
107.5°	202.9	203.7	204.4	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7
110°	229.5	230.6	231.6	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	258.3	259.3	260.3	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4
115°	300.7	301.7	302.8	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5
117.5°	343.4	344.7	346.0	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1
120°	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2
122.5°	397.6	399.2	400.7	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2
125°	437.7	439.1	440.6	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6
127.5°	477.2	479.1	480.9	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9
130°	502.0	504.1	506.3	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5
132.5°	529.2	531.0	532.7	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2
135°	566.1	567.9	569.8	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7
137.5°	604.6	606.1	607.6	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5
140°	627.9	629.4	631.0	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9
142.5°	652.0	653.5	655.0	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0
145°	686.1	687.2	688.4	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0
147.5°	717.0	718.4	719.8	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7
150°	737.6	738.6	739.6	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1
152.5°	756.2	757.2	758.2	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6
155°	783.6	784.1	784.6	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2
157.5°	807.3	807.6	807.9	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0
160°	821.6	821.9	822.3	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6
162.5°	834.6	834.7	834.7	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8
165°	851.8	851.7	851.5	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6
167.5°	866.3	865.8	865.3	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7
170°	874.0	873.5	873.0	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8
172.5°	879.4	878.9	878.4	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3
175°	886.1	885.6	885.0	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0
177.5°	888.8	888.4	888.0	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1535.5	1540.9	1543.4	1543.4	1546.3	1545.0	1543.8
5°	1623.8	1633.6	1635.7	1645.0	1651.6	1649.5	1650.6
7.5°	1711.5	1727.3	1742.8	1750.0	1751.1	1755.2	1756.8
10°	1765.5	1778.5	1802.7	1799.1	1817.1	1827.5	1810.4
12.5°	1817.6	1834.9	1851.7	1856.3	1866.6	1869.9	1863.2
15°	1864.5	1873.8	1874.8	1872.3	1875.3	1872.8	1863.0
17.5°	1820.6	1805.5	1775.0	1760.6	1749.2	1732.2	1725.5
20°	1748.0	1703.6	1652.1	1631.5	1607.3	1559.8	1571.2
22.5°	1591.3	1540.8	1489.2	1429.1	1400.3	1355.3	1352.6
25°	1347.5	1260.4	1164.5	1097.5	1058.3	1013.5	993.9
27.5°	1047.6	938.0	859.4	819.6	783.5	747.9	746.4
30°	850.5	768.1	707.2	673.3	651.1	636.1	639.2
32.5°	716.9	660.5	619.5	591.2	574.8	563.5	563.3
35°	586.1	547.4	521.2	509.3	497.5	489.2	489.7
37.5°	501.6	478.4	463.7	450.6	443.2	439.2	437.0
40°	458.3	439.2	427.9	420.1	413.9	408.3	407.3
42.5°	424.0	408.3	396.9	390.8	385.1	381.0	380.0
45°	376.3	363.5	353.1	346.4	343.9	340.2	340.2
47.5°	334.8	322.0	314.1	309.8	305.4	303.0	302.9
50°	306.7	296.9	289.7	287.1	283.5	282.0	281.4
52.5°	281.6	274.3	269.1	267.3	265.8	263.8	264.2
55°	247.4	243.3	241.3	239.7	237.1	234.0	236.1
57.5°	218.6	215.2	209.6	204.8	202.4	200.3	201.1
60°	198.4	191.3	184.0	178.3	176.8	172.2	172.2
62.5°	172.9	162.8	153.9	150.8	149.2	147.0	146.6
65°	133.0	128.9	126.8	124.7	123.7	123.7	122.7
67.5°	110.2	108.6	106.3	105.7	104.7	104.4	104.1
70°	97.5	95.3	94.3	93.8	92.8	93.3	91.8
72.5°	85.0	83.4	83.2	81.9	81.2	81.3	80.2
75°	67.1	67.1	66.4	65.9	64.9	64.4	64.9
77.5°	51.5	51.6	50.7	50.6	50.5	50.6	50.1
80°	41.2	41.7	41.2	40.7	40.2	40.7	40.2
82.5°	32.6	31.8	31.7	31.6	31.5	31.2	31.1
85°	18.6	19.1	18.6	18.1	18.1	18.1	18.6
87.5°	12.0	12.0	12.0	12.0	12.0	12.1	11.7
90°	25.2	24.9	24.8	24.9	25.1	25.3	25.4
92.5°	24.0	24.1	24.1	24.1	24.2	24.2	24.2
95°	48.0	48.0	47.8	47.5	47.2	46.8	46.5
97.5°	80.6	80.6	80.6	80.6	80.6	80.5	80.5
100°	103.4	103.4	103.3	103.2	103.0	102.8	102.7
102.5°	128.4	128.6	128.6	128.4	128.2	128.1	127.8
105°	165.8	166.2	166.3	166.3	166.3	166.3	166.3
107.5°	205.9	206.0	205.7	204.9	204.2	203.4	202.7
110°	233.1	233.1	232.8	232.3	231.8	231.3	230.9



TEST NUMBER: P331810-840

CATALOG NUMBER: S122RDIW-S675D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	260.0	259.6	259.2	258.9	258.5	258.1	257.8
115°	302.3	302.1	301.7	301.2	300.7	300.2	299.7
117.5°	342.6	342.2	341.7	341.2	340.7	340.2	339.7
120°	370.2	370.2	369.9	369.4	368.9	368.4	367.9
122.5°	397.8	397.4	397.0	396.6	396.3	395.9	395.6
125°	439.1	438.6	438.3	438.2	438.0	437.8	437.7
127.5°	479.3	478.7	478.2	477.6	477.1	476.6	476.1
130°	507.1	506.8	506.2	505.5	504.9	504.2	503.6
132.5°	533.4	532.7	532.1	531.6	531.0	530.5	530.0
135°	573.5	573.4	573.0	572.5	572.0	571.5	571.0
137.5°	611.4	611.3	610.9	610.2	609.6	608.8	608.1
140°	636.9	636.9	636.6	636.0	635.3	634.6	634.0
142.5°	660.1	660.2	660.0	659.3	658.6	658.0	657.3
145°	695.2	695.3	695.1	694.4	693.8	693.1	692.5
147.5°	726.0	726.4	726.3	725.7	725.0	724.4	723.8
150°	745.6	746.1	746.1	745.6	745.1	744.7	744.2
152.5°	765.2	765.9	765.9	765.2	764.6	764.0	763.4
155°	790.1	790.9	791.1	790.6	790.1	789.6	789.1
157.5°	813.1	814.3	814.5	813.6	812.8	812.0	811.2
160°	826.6	827.6	827.7	827.1	826.4	825.8	825.1
162.5°	839.0	840.1	840.2	839.4	838.7	837.9	837.1
165°	854.7	856.0	856.2	855.3	854.4	853.6	852.8
167.5°	867.8	869.0	869.1	868.3	867.4	866.6	865.7
170°	875.0	876.2	876.3	875.3	874.2	873.2	872.2
172.5°	880.4	881.6	881.6	880.7	879.7	878.7	877.7
175°	886.3	887.5	887.5	886.5	885.6	884.5	883.5
177.5°	888.6	889.4	889.4	888.6	887.8	887.0	886.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0

(END OF REPORT)