

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: P331806-840

Luminaire Tested: **S122RDIW-S675D435U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331806-840  
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-S675D435U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4082.1 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

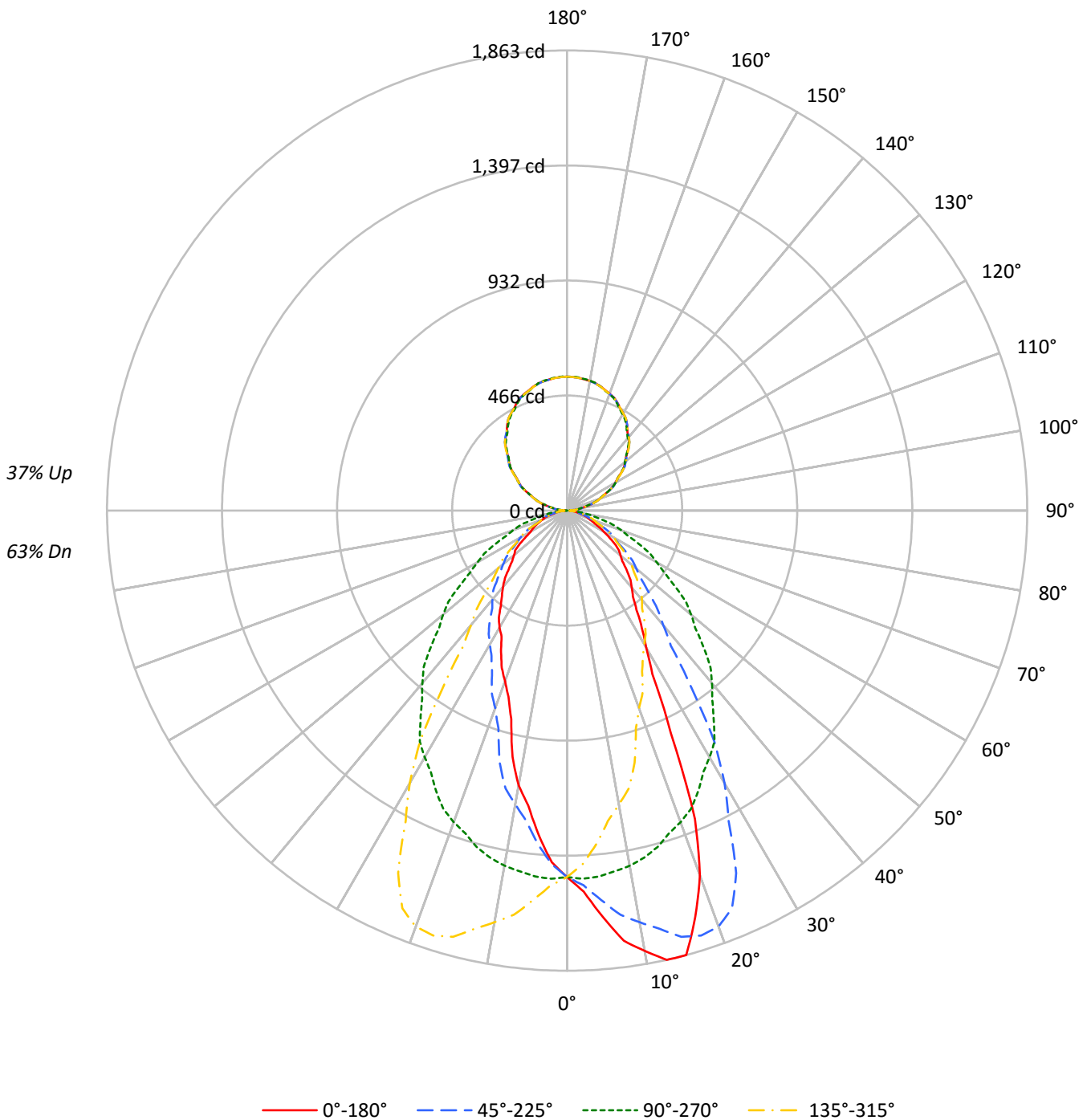
Input Watts (W): 37.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**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	90	90	90	79	79	79	68	68	68	63
1	102	98	94	91	95	92	89	86	81	78	76	71	69	68	62	60	59	55
2	93	86	81	76	87	81	76	72	72	68	65	63	61	58	55	53	52	48
3	86	77	70	65	80	73	67	62	65	60	56	57	53	50	50	47	45	42
4	79	69	61	56	74	65	59	53	58	53	49	52	48	44	46	42	40	37
5	73	62	54	49	69	59	52	47	53	47	43	47	43	39	42	38	36	33
6	68	56	49	43	64	53	46	41	48	42	38	43	38	35	38	35	32	29
7	63	51	44	38	59	49	42	37	44	38	34	40	35	32	35	32	29	27
8	59	47	40	34	55	45	38	33	41	35	31	37	32	29	33	29	26	24
9	55	43	36	31	52	41	35	30	38	32	28	34	29	26	31	27	24	22
10	52	40	33	28	49	38	32	27	35	29	26	32	27	24	29	25	22	20

**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: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	3.4
10°-20°	391.9	9.6
20°-30°	505.0	12.4
30°-40°	479.9	11.8
40°-50°	411.1	10.1
50°-60°	313.0	7.7
60°-70°	197.9	4.8
70°-80°	98.8	2.4
80°-90°	27.9	0.7
90°-100°	34.4	0.8
100°-110°	106.7	2.6
110°-120°	182.4	4.5
120°-130°	239.9	5.9
130°-140°	269.2	6.6
140°-150°	263.9	6.5
150°-160°	221.4	5.4
160°-170°	146.8	3.6
170°-180°	51.3	1.3
0°-30°	1037.5	25.4
0°-40°	1517.4	37.2
0°-60°	2241.5	54.9
0°-90°	2566.1	62.9
90°-120°	323.4	7.9
90°-150°	1096.4	26.9
90°-180°	1516.0	37.1
0°-180°	4082.1	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	20
90°	16	0	16	0	16	8
95°	28	24	28	24	28	32
105°	102	98	102	98	102	107
115°	183	183	183	183	183	181
125°	267	266	267	266	267	238
135°	349	345	349	345	349	268
145°	423	418	423	418	423	264
155°	482	478	482	478	482	222
165°	521	520	521	520	521	147
175°	540	541	540	541	540	51
180°	542	542	542	542	542	



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	9.7	10.1	10.1	10.1	10.0	10.1	10.1	10.5	10.2	10.6	9.8
90°	15.6	15.5	15.3	15.2	15.1	15.2	15.5	15.7	15.9	16.1	13.7
92.5°	14.8	14.8	14.7	14.7	14.7	14.7	14.6	14.6	14.5	14.5	14.0
95°	28.4	28.6	28.8	29.0	29.2	29.3	29.3	29.3	29.3	29.3	29.1
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	48.9
100°	62.7	62.8	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	62.8
102.5°	78.1	78.2	78.3	78.4	78.5	78.5	78.4	78.3	78.3	78.2	77.8
105°	101.6	101.6	101.6	101.6	101.6	101.5	101.3	101.1	100.9	100.7	100.5
107.5°	123.7	124.2	124.6	125.1	125.6	125.8	125.7	125.6	125.5	125.4	125.4
110°	140.9	141.2	141.5	141.8	142.1	142.3	142.3	142.3	142.3	142.3	142.3



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	157.4	157.6	157.8	158.0	158.2	158.5	158.8	159.1	159.3	159.5	159.6
115°	183.0	183.3	183.6	183.9	184.2	184.4	184.5	184.6	184.7	184.8	185.0
117.5°	207.4	207.7	208.0	208.3	208.6	208.9	209.1	209.4	209.6	210.0	210.5
120°	224.7	225.0	225.3	225.6	225.9	226.0	226.0	226.0	226.0	226.0	226.8
122.5°	241.5	241.7	242.0	242.2	242.4	242.6	242.9	243.1	243.4	243.6	244.2
125°	267.2	267.3	267.4	267.5	267.6	267.8	268.1	268.4	268.7	269.0	269.3
127.5°	290.6	290.9	291.2	291.5	292.0	292.3	292.7	293.0	293.4	293.8	294.1
130°	307.5	307.9	308.3	308.7	309.1	309.4	309.6	309.8	310.0	310.2	310.4
132.5°	323.6	323.9	324.2	324.6	324.9	325.3	325.7	326.2	326.6	327.0	327.0
135°	348.6	348.9	349.2	349.5	349.8	350.0	350.1	350.2	350.3	350.4	350.2
137.5°	371.3	371.7	372.1	372.5	372.9	373.2	373.2	373.3	373.4	373.5	373.2
140°	387.1	387.5	387.9	388.3	388.7	388.9	388.9	388.9	388.9	388.9	388.4
142.5°	401.3	401.7	402.1	402.5	402.9	403.1	403.0	402.9	402.9	402.8	402.4
145°	422.7	423.1	423.5	423.9	424.3	424.5	424.4	424.3	424.2	424.1	423.5
147.5°	441.9	442.2	442.6	443.0	443.4	443.5	443.3	443.0	442.8	442.6	442.2
150°	454.3	454.6	454.9	455.2	455.6	455.6	455.2	454.9	454.6	454.3	453.9
152.5°	466.1	466.5	466.8	467.2	467.6	467.6	467.2	466.8	466.5	466.1	465.5
155°	481.8	482.1	482.4	482.7	483.0	482.9	482.4	481.9	481.4	480.9	480.6
157.5°	495.3	495.8	496.2	496.8	497.3	497.2	496.4	495.7	495.1	494.4	494.2
160°	503.7	504.1	504.5	504.9	505.3	505.2	504.6	504.0	503.4	502.8	502.7
162.5°	511.1	511.5	512.0	512.5	513.0	512.9	512.2	511.5	510.8	510.2	510.1
165°	520.7	521.2	521.7	522.2	522.7	522.6	521.9	521.2	520.5	519.8	519.8
167.5°	528.6	529.1	529.6	530.1	530.7	530.6	529.9	529.2	528.5	527.8	527.8
170°	532.6	533.2	533.8	534.4	535.0	534.9	534.2	533.5	532.8	532.1	532.2
172.5°	535.8	536.4	537.0	537.7	538.3	538.3	537.6	536.8	536.1	535.4	535.5
175°	539.5	540.1	540.7	541.3	541.9	541.8	541.1	540.4	539.7	539.0	539.2
177.5°	541.1	541.6	542.1	542.5	543.0	543.0	542.5	542.1	541.6	541.1	541.2
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	9.3	9.3	8.8	8.1	8.3	8.4	10.2	12.0	10.6	9.7	9.1
90°	11.5	9.3	7.1	5.4	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.5	12.9	12.4	11.7	10.8	9.9	9.1	8.2	9.1	9.9	10.8
95°	28.9	28.7	28.5	27.9	26.9	25.9	24.8	23.8	24.8	25.9	26.9
97.5°	48.5	48.1	47.7	47.1	46.2	45.2	44.3	43.4	44.3	45.2	46.2
100°	62.5	62.2	61.9	61.4	60.6	59.7	58.9	58.1	58.9	59.7	60.6
102.5°	77.4	77.0	76.6	76.0	75.4	74.7	74.1	73.5	74.1	74.7	75.4
105°	100.3	100.1	99.9	99.6	99.3	99.0	98.7	98.4	98.7	99.0	99.3
107.5°	125.4	125.4	125.4	125.2	124.8	124.3	123.9	123.4	123.9	124.3	124.8
110°	142.3	142.3	142.3	142.0	141.4	140.8	140.2	139.6	140.2	140.8	141.4





TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.7	159.8	159.9	159.6	159.0	158.3	157.7	157.1	157.7	158.3	159.0
115°	185.2	185.4	185.6	185.4	184.8	184.2	183.6	183.0	183.6	184.2	184.8
117.5°	211.1	211.7	212.2	212.1	211.3	210.5	209.6	208.8	209.6	210.5	211.3
120°	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0	226.8	227.6	228.4
122.5°	244.7	245.3	245.9	245.7	244.7	243.7	242.8	241.8	242.8	243.7	244.7
125°	269.6	269.9	270.2	269.9	269.0	268.1	267.2	266.3	267.2	268.1	269.0
127.5°	294.5	294.9	295.2	294.8	293.7	292.5	291.3	290.1	291.3	292.5	293.7
130°	310.6	310.8	311.0	310.4	309.1	307.8	306.5	305.2	306.5	307.8	309.1
132.5°	327.0	326.9	326.9	326.3	325.3	324.2	323.1	322.0	323.1	324.2	325.3
135°	350.0	349.8	349.6	349.0	347.9	346.8	345.7	344.6	345.7	346.8	347.9
137.5°	373.0	372.7	372.4	371.8	370.9	370.0	369.1	368.2	369.1	370.0	370.9
140°	387.9	387.4	386.9	386.2	385.3	384.4	383.4	382.5	383.4	384.4	385.3
142.5°	402.1	401.7	401.4	400.8	399.9	399.0	398.1	397.2	398.1	399.0	399.9
145°	422.9	422.3	421.7	421.0	420.3	419.6	418.9	418.2	418.9	419.6	420.3
147.5°	441.8	441.4	441.0	440.4	439.5	438.7	437.8	437.0	437.8	438.7	439.5
150°	453.5	453.1	452.7	452.2	451.6	451.0	450.4	449.8	450.4	451.0	451.6
152.5°	465.0	464.5	464.1	463.5	462.9	462.3	461.7	461.1	461.7	462.3	462.9
155°	480.3	480.0	479.7	479.4	479.1	478.7	478.4	478.1	478.4	478.7	479.1
157.5°	494.0	493.8	493.6	493.5	493.3	493.1	492.9	492.7	492.9	493.1	493.3
160°	502.6	502.5	502.4	502.3	502.1	501.9	501.7	501.5	501.7	501.9	502.1
162.5°	510.0	509.9	509.8	509.7	509.6	509.6	509.6	509.5	509.6	509.6	509.6
165°	519.8	519.8	519.8	519.8	519.9	520.0	520.1	520.2	520.1	520.0	519.9
167.5°	527.8	527.8	527.8	528.0	528.3	528.6	528.9	529.2	528.9	528.6	528.3
170°	532.3	532.4	532.5	532.7	533.0	533.3	533.6	533.9	533.6	533.3	533.0
172.5°	535.6	535.7	535.8	536.0	536.3	536.6	536.9	537.2	536.9	536.6	536.3
175°	539.4	539.6	539.8	540.1	540.4	540.7	541.0	541.3	541.0	540.7	540.4
177.5°	541.4	541.6	541.7	541.9	542.2	542.4	542.7	542.9	542.7	542.4	542.2
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	8.9	8.8	8.5	8.9	9.4	9.4	9.4	8.9	8.9	8.8	8.4
90°	5.4	7.1	9.3	11.5	13.7	16.1	15.9	15.7	15.5	15.2	15.1
92.5°	11.7	12.4	12.9	13.5	14.0	14.5	14.5	14.6	14.6	14.7	14.7
95°	27.9	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.3	29.3	29.2
97.5°	47.1	47.7	48.1	48.5	48.9	49.2	49.2	49.2	49.2	49.2	49.2
100°	61.4	61.9	62.2	62.5	62.8	63.1	63.1	63.1	63.1	63.1	63.1
102.5°	76.0	76.6	77.0	77.4	77.8	78.2	78.3	78.3	78.4	78.5	78.5
105°	99.6	99.9	100.1	100.3	100.5	100.7	100.9	101.1	101.3	101.5	101.6
107.5°	125.2	125.4	125.4	125.4	125.4	125.4	125.5	125.6	125.7	125.8	125.6
110°	142.0	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.1



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.6	159.9	159.8	159.7	159.6	159.5	159.3	159.1	158.8	158.5	158.2
115°	185.4	185.6	185.4	185.2	185.0	184.8	184.7	184.6	184.5	184.4	184.2
117.5°	212.1	212.2	211.7	211.1	210.5	210.0	209.6	209.4	209.1	208.9	208.6
120°	229.2	229.2	228.4	227.6	226.8	226.0	226.0	226.0	226.0	226.0	225.9
122.5°	245.7	245.9	245.3	244.7	244.2	243.6	243.4	243.1	242.9	242.6	242.4
125°	269.9	270.2	269.9	269.6	269.3	269.0	268.7	268.4	268.1	267.8	267.6
127.5°	294.8	295.2	294.9	294.5	294.1	293.8	293.4	293.0	292.7	292.3	292.0
130°	310.4	311.0	310.8	310.6	310.4	310.2	310.0	309.8	309.6	309.4	309.1
132.5°	326.3	326.9	326.9	327.0	327.0	327.0	326.6	326.2	325.7	325.3	324.9
135°	349.0	349.6	349.8	350.0	350.2	350.4	350.3	350.2	350.1	350.0	349.8
137.5°	371.8	372.4	372.7	373.0	373.2	373.5	373.4	373.3	373.2	373.2	372.9
140°	386.2	386.9	387.4	387.9	388.4	388.9	388.9	388.9	388.9	388.9	388.7
142.5°	400.8	401.4	401.7	402.1	402.4	402.8	402.9	402.9	403.0	403.1	402.9
145°	421.0	421.7	422.3	422.9	423.5	424.1	424.2	424.3	424.4	424.5	424.3
147.5°	440.4	441.0	441.4	441.8	442.2	442.6	442.8	443.0	443.3	443.5	443.4
150°	452.2	452.7	453.1	453.5	453.9	454.3	454.6	454.9	455.2	455.6	455.6
152.5°	463.5	464.1	464.5	465.0	465.5	466.1	466.5	466.8	467.2	467.6	467.6
155°	479.4	479.7	480.0	480.3	480.6	480.9	481.4	481.9	482.4	482.9	483.0
157.5°	493.5	493.6	493.8	494.0	494.2	494.4	495.1	495.7	496.4	497.2	497.3
160°	502.3	502.4	502.5	502.6	502.7	502.8	503.4	504.0	504.6	505.2	505.3
162.5°	509.7	509.8	509.9	510.0	510.1	510.2	510.8	511.5	512.2	512.9	513.0
165°	519.8	519.8	519.8	519.8	519.8	519.8	520.5	521.2	521.9	522.6	522.7
167.5°	528.0	527.8	527.8	527.8	527.8	527.8	528.5	529.2	529.9	530.6	530.7
170°	532.7	532.5	532.4	532.3	532.2	532.1	532.8	533.5	534.2	534.9	535.0
172.5°	536.0	535.8	535.7	535.6	535.5	535.4	536.1	536.8	537.6	538.3	538.3
175°	540.1	539.8	539.6	539.4	539.2	539.0	539.7	540.4	541.1	541.8	541.9
177.5°	541.9	541.7	541.6	541.4	541.2	541.1	541.6	542.1	542.5	543.0	543.0
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	8.4	8.0	8.5	8.1	8.5	8.0	8.4	8.4	8.8	8.9	8.9
90°	15.2	15.3	15.5	15.6	15.5	15.3	15.2	15.1	15.2	15.5	15.7
92.5°	14.7	14.7	14.8	14.8	14.8	14.7	14.7	14.7	14.7	14.6	14.6
95°	29.0	28.8	28.6	28.4	28.6	28.8	29.0	29.2	29.3	29.3	29.3
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
100°	63.0	62.9	62.8	62.7	62.8	62.9	63.0	63.1	63.1	63.1	63.1
102.5°	78.4	78.3	78.2	78.1	78.2	78.3	78.4	78.5	78.5	78.4	78.3
105°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.5	101.3	101.1
107.5°	125.1	124.6	124.2	123.7	124.2	124.6	125.1	125.6	125.8	125.7	125.6
110°	141.8	141.5	141.2	140.9	141.2	141.5	141.8	142.1	142.3	142.3	142.3



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.0	157.8	157.6	157.4	157.6	157.8	158.0	158.2	158.5	158.8	159.1
115°	183.9	183.6	183.3	183.0	183.3	183.6	183.9	184.2	184.4	184.5	184.6
117.5°	208.3	208.0	207.7	207.4	207.7	208.0	208.3	208.6	208.9	209.1	209.4
120°	225.6	225.3	225.0	224.7	225.0	225.3	225.6	225.9	226.0	226.0	226.0
122.5°	242.2	242.0	241.7	241.5	241.7	242.0	242.2	242.4	242.6	242.9	243.1
125°	267.5	267.4	267.3	267.2	267.3	267.4	267.5	267.6	267.8	268.1	268.4
127.5°	291.5	291.2	290.9	290.6	290.9	291.2	291.5	292.0	292.3	292.7	293.0
130°	308.7	308.3	307.9	307.5	307.9	308.3	308.7	309.1	309.4	309.6	309.8
132.5°	324.6	324.2	323.9	323.6	323.9	324.2	324.6	324.9	325.3	325.7	326.2
135°	349.5	349.2	348.9	348.6	348.9	349.2	349.5	349.8	350.0	350.1	350.2
137.5°	372.5	372.1	371.7	371.3	371.7	372.1	372.5	372.9	373.2	373.2	373.3
140°	388.3	387.9	387.5	387.1	387.5	387.9	388.3	388.7	388.9	388.9	388.9
142.5°	402.5	402.1	401.7	401.3	401.7	402.1	402.5	402.9	403.1	403.0	402.9
145°	423.9	423.5	423.1	422.7	423.1	423.5	423.9	424.3	424.5	424.4	424.3
147.5°	443.0	442.6	442.2	441.9	442.2	442.6	443.0	443.4	443.5	443.3	443.0
150°	455.2	454.9	454.6	454.3	454.6	454.9	455.2	455.6	455.6	455.2	454.9
152.5°	467.2	466.8	466.5	466.1	466.5	466.8	467.2	467.6	467.6	467.2	466.8
155°	482.7	482.4	482.1	481.8	482.1	482.4	482.7	483.0	482.9	482.4	481.9
157.5°	496.8	496.2	495.8	495.3	495.8	496.2	496.8	497.3	497.2	496.4	495.7
160°	504.9	504.5	504.1	503.7	504.1	504.5	504.9	505.3	505.2	504.6	504.0
162.5°	512.5	512.0	511.5	511.1	511.5	512.0	512.5	513.0	512.9	512.2	511.5
165°	522.2	521.7	521.2	520.7	521.2	521.7	522.2	522.7	522.6	521.9	521.2
167.5°	530.1	529.6	529.1	528.6	529.1	529.6	530.1	530.7	530.6	529.9	529.2
170°	534.4	533.8	533.2	532.6	533.2	533.8	534.4	535.0	534.9	534.2	533.5
172.5°	537.7	537.0	536.4	535.8	536.4	537.0	537.7	538.3	538.3	537.6	536.8
175°	541.3	540.7	540.1	539.5	540.1	540.7	541.3	541.9	541.8	541.1	540.4
177.5°	542.5	542.1	541.6	541.1	541.6	542.1	542.5	543.0	543.0	542.5	542.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	9.4	9.4	9.4	8.9	8.5	8.8	8.9	9.1	9.7	10.6	12.0
90°	15.9	16.1	13.7	11.5	9.3	7.1	5.4	4.1	2.9	1.7	0.5
92.5°	14.5	14.5	14.0	13.5	12.9	12.4	11.7	10.8	9.9	9.1	8.2
95°	29.3	29.3	29.1	28.9	28.7	28.5	27.9	26.9	25.9	24.8	23.8
97.5°	49.2	49.2	48.9	48.5	48.1	47.7	47.1	46.2	45.2	44.3	43.4
100°	63.1	63.1	62.8	62.5	62.2	61.9	61.4	60.6	59.7	58.9	58.1
102.5°	78.3	78.2	77.8	77.4	77.0	76.6	76.0	75.4	74.7	74.1	73.5
105°	100.9	100.7	100.5	100.3	100.1	99.9	99.6	99.3	99.0	98.7	98.4
107.5°	125.5	125.4	125.4	125.4	125.4	125.4	125.2	124.8	124.3	123.9	123.4
110°	142.3	142.3	142.3	142.3	142.3	142.3	142.0	141.4	140.8	140.2	139.6



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	159.3	159.5	159.6	159.7	159.8	159.9	159.6	159.0	158.3	157.7	157.1
115°	184.7	184.8	185.0	185.2	185.4	185.6	185.4	184.8	184.2	183.6	183.0
117.5°	209.6	210.0	210.5	211.1	211.7	212.2	212.1	211.3	210.5	209.6	208.8
120°	226.0	226.0	226.8	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0
122.5°	243.4	243.6	244.2	244.7	245.3	245.9	245.7	244.7	243.7	242.8	241.8
125°	268.7	269.0	269.3	269.6	269.9	270.2	269.9	269.0	268.1	267.2	266.3
127.5°	293.4	293.8	294.1	294.5	294.9	295.2	294.8	293.7	292.5	291.3	290.1
130°	310.0	310.2	310.4	310.6	310.8	311.0	310.4	309.1	307.8	306.5	305.2
132.5°	326.6	327.0	327.0	327.0	326.9	326.9	326.3	325.3	324.2	323.1	322.0
135°	350.3	350.4	350.2	350.0	349.8	349.6	349.0	347.9	346.8	345.7	344.6
137.5°	373.4	373.5	373.2	373.0	372.7	372.4	371.8	370.9	370.0	369.1	368.2
140°	388.9	388.9	388.4	387.9	387.4	386.9	386.2	385.3	384.4	383.4	382.5
142.5°	402.9	402.8	402.4	402.1	401.7	401.4	400.8	399.9	399.0	398.1	397.2
145°	424.2	424.1	423.5	422.9	422.3	421.7	421.0	420.3	419.6	418.9	418.2
147.5°	442.8	442.6	442.2	441.8	441.4	441.0	440.4	439.5	438.7	437.8	437.0
150°	454.6	454.3	453.9	453.5	453.1	452.7	452.2	451.6	451.0	450.4	449.8
152.5°	466.5	466.1	465.5	465.0	464.5	464.1	463.5	462.9	462.3	461.7	461.1
155°	481.4	480.9	480.6	480.3	480.0	479.7	479.4	479.1	478.7	478.4	478.1
157.5°	495.1	494.4	494.2	494.0	493.8	493.6	493.5	493.3	493.1	492.9	492.7
160°	503.4	502.8	502.7	502.6	502.5	502.4	502.3	502.1	501.9	501.7	501.5
162.5°	510.8	510.2	510.1	510.0	509.9	509.8	509.7	509.6	509.6	509.6	509.5
165°	520.5	519.8	519.8	519.8	519.8	519.8	519.8	519.9	520.0	520.1	520.2
167.5°	528.5	527.8	527.8	527.8	527.8	527.8	528.0	528.3	528.6	528.9	529.2
170°	532.8	532.1	532.2	532.3	532.4	532.5	532.7	533.0	533.3	533.6	533.9
172.5°	536.1	535.4	535.5	535.6	535.7	535.8	536.0	536.3	536.6	536.9	537.2
175°	539.7	539.0	539.2	539.4	539.6	539.8	540.1	540.4	540.7	541.0	541.3
177.5°	541.6	541.1	541.2	541.4	541.6	541.7	541.9	542.2	542.4	542.7	542.9
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	10.2	8.4	8.3	8.1	8.8	9.3	9.3	9.8	10.6	10.2	10.5
90°	1.7	2.9	4.1	5.4	7.1	9.3	11.5	13.7	16.1	15.9	15.7
92.5°	9.1	9.9	10.8	11.7	12.4	12.9	13.5	14.0	14.5	14.5	14.6
95°	24.8	25.9	26.9	27.9	28.5	28.7	28.9	29.1	29.3	29.3	29.3
97.5°	44.3	45.2	46.2	47.1	47.7	48.1	48.5	48.9	49.2	49.2	49.2
100°	58.9	59.7	60.6	61.4	61.9	62.2	62.5	62.8	63.1	63.1	63.1
102.5°	74.1	74.7	75.4	76.0	76.6	77.0	77.4	77.8	78.2	78.3	78.3
105°	98.7	99.0	99.3	99.6	99.9	100.1	100.3	100.5	100.7	100.9	101.1
107.5°	123.9	124.3	124.8	125.2	125.4	125.4	125.4	125.4	125.4	125.5	125.6
110°	140.2	140.8	141.4	142.0	142.3	142.3	142.3	142.3	142.3	142.3	142.3





TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.7	158.3	159.0	159.6	159.9	159.8	159.7	159.6	159.5	159.3	159.1
115°	183.6	184.2	184.8	185.4	185.6	185.4	185.2	185.0	184.8	184.7	184.6
117.5°	209.6	210.5	211.3	212.1	212.2	211.7	211.1	210.5	210.0	209.6	209.4
120°	226.8	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0	226.0	226.0
122.5°	242.8	243.7	244.7	245.7	245.9	245.3	244.7	244.2	243.6	243.4	243.1
125°	267.2	268.1	269.0	269.9	270.2	269.9	269.6	269.3	269.0	268.7	268.4
127.5°	291.3	292.5	293.7	294.8	295.2	294.9	294.5	294.1	293.8	293.4	293.0
130°	306.5	307.8	309.1	310.4	311.0	310.8	310.6	310.4	310.2	310.0	309.8
132.5°	323.1	324.2	325.3	326.3	326.9	326.9	327.0	327.0	327.0	326.6	326.2
135°	345.7	346.8	347.9	349.0	349.6	349.8	350.0	350.2	350.4	350.3	350.2
137.5°	369.1	370.0	370.9	371.8	372.4	372.7	373.0	373.2	373.5	373.4	373.3
140°	383.4	384.4	385.3	386.2	386.9	387.4	387.9	388.4	388.9	388.9	388.9
142.5°	398.1	399.0	399.9	400.8	401.4	401.7	402.1	402.4	402.8	402.9	402.9
145°	418.9	419.6	420.3	421.0	421.7	422.3	422.9	423.5	424.1	424.2	424.3
147.5°	437.8	438.7	439.5	440.4	441.0	441.4	441.8	442.2	442.6	442.8	443.0
150°	450.4	451.0	451.6	452.2	452.7	453.1	453.5	453.9	454.3	454.6	454.9
152.5°	461.7	462.3	462.9	463.5	464.1	464.5	465.0	465.5	466.1	466.5	466.8
155°	478.4	478.7	479.1	479.4	479.7	480.0	480.3	480.6	480.9	481.4	481.9
157.5°	492.9	493.1	493.3	493.5	493.6	493.8	494.0	494.2	494.4	495.1	495.7
160°	501.7	501.9	502.1	502.3	502.4	502.5	502.6	502.7	502.8	503.4	504.0
162.5°	509.6	509.6	509.6	509.7	509.8	509.9	510.0	510.1	510.2	510.8	511.5
165°	520.1	520.0	519.9	519.8	519.8	519.8	519.8	519.8	519.8	520.5	521.2
167.5°	528.9	528.6	528.3	528.0	527.8	527.8	527.8	527.8	527.8	528.5	529.2
170°	533.6	533.3	533.0	532.7	532.5	532.4	532.3	532.2	532.1	532.8	533.5
172.5°	536.9	536.6	536.3	536.0	535.8	535.7	535.6	535.5	535.4	536.1	536.8
175°	541.0	540.7	540.4	540.1	539.8	539.6	539.4	539.2	539.0	539.7	540.4
177.5°	542.7	542.4	542.2	541.9	541.7	541.6	541.4	541.2	541.1	541.6	542.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-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°	10.1	10.1	10.0	10.1	10.1	10.1	9.7
90°	15.5	15.2	15.1	15.2	15.3	15.5	15.6
92.5°	14.6	14.7	14.7	14.7	14.7	14.8	14.8
95°	29.3	29.3	29.2	29.0	28.8	28.6	28.4
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2
100°	63.1	63.1	63.1	63.0	62.9	62.8	62.7
102.5°	78.4	78.5	78.5	78.4	78.3	78.2	78.1
105°	101.3	101.5	101.6	101.6	101.6	101.6	101.6
107.5°	125.7	125.8	125.6	125.1	124.6	124.2	123.7
110°	142.3	142.3	142.1	141.8	141.5	141.2	140.9



TEST NUMBER: P331806-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.8	158.5	158.2	158.0	157.8	157.6	157.4
115°	184.5	184.4	184.2	183.9	183.6	183.3	183.0
117.5°	209.1	208.9	208.6	208.3	208.0	207.7	207.4
120°	226.0	226.0	225.9	225.6	225.3	225.0	224.7
122.5°	242.9	242.6	242.4	242.2	242.0	241.7	241.5
125°	268.1	267.8	267.6	267.5	267.4	267.3	267.2
127.5°	292.7	292.3	292.0	291.5	291.2	290.9	290.6
130°	309.6	309.4	309.1	308.7	308.3	307.9	307.5
132.5°	325.7	325.3	324.9	324.6	324.2	323.9	323.6
135°	350.1	350.0	349.8	349.5	349.2	348.9	348.6
137.5°	373.2	373.2	372.9	372.5	372.1	371.7	371.3
140°	388.9	388.9	388.7	388.3	387.9	387.5	387.1
142.5°	403.0	403.1	402.9	402.5	402.1	401.7	401.3
145°	424.4	424.5	424.3	423.9	423.5	423.1	422.7
147.5°	443.3	443.5	443.4	443.0	442.6	442.2	441.9
150°	455.2	455.6	455.6	455.2	454.9	454.6	454.3
152.5°	467.2	467.6	467.6	467.2	466.8	466.5	466.1
155°	482.4	482.9	483.0	482.7	482.4	482.1	481.8
157.5°	496.4	497.2	497.3	496.8	496.2	495.8	495.3
160°	504.6	505.2	505.3	504.9	504.5	504.1	503.7
162.5°	512.2	512.9	513.0	512.5	512.0	511.5	511.1
165°	521.9	522.6	522.7	522.2	521.7	521.2	520.7
167.5°	529.9	530.6	530.7	530.1	529.6	529.1	528.6
170°	534.2	534.9	535.0	534.4	533.8	533.2	532.6
172.5°	537.6	538.3	538.3	537.7	537.0	536.4	535.8
175°	541.1	541.8	541.9	541.3	540.7	540.1	539.5
177.5°	542.5	543.0	543.0	542.5	542.1	541.6	541.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2

(END OF REPORT)