

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: P331676-840

Luminaire Tested: **SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331676-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

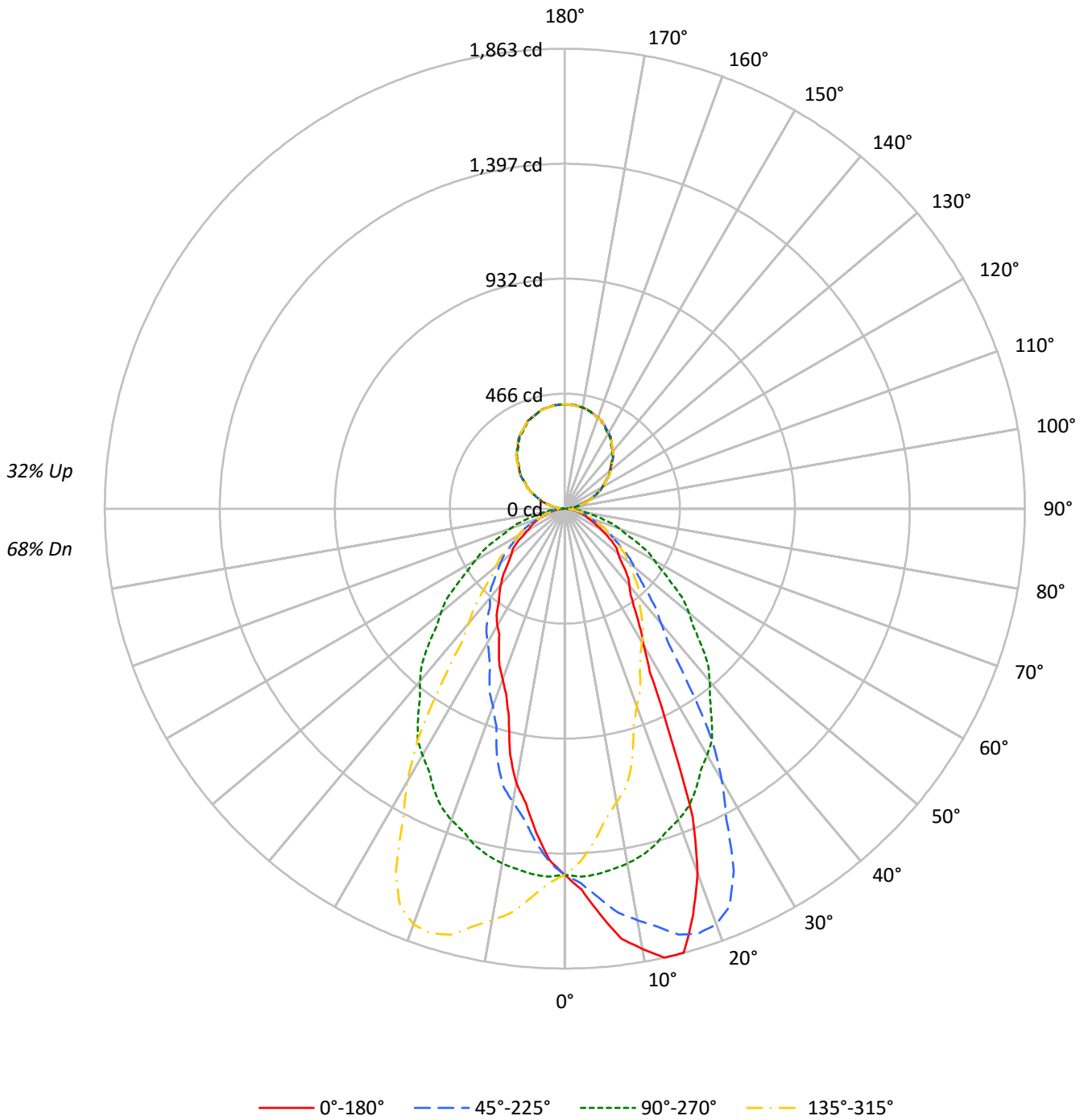
Lumens per Lamp: N/A
Luminaire Lumens: 3747.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 35
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: P331676-840
CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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	50	30	10	0	
RCR	0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68			
	1	103	99	95	92	97	94	90	88	84	81	79	75	73	71	66	65	64	60			
	2	95	88	82	77	89	83	78	74	75	71	67	67	64	61	60	57	55	52			
	3	87	78	71	66	82	74	68	63	67	62	58	60	56	53	54	51	49	45			
	4	80	70	63	57	76	67	60	55	60	55	51	55	50	47	49	46	43	40			
	5	74	63	56	50	70	60	53	48	55	49	45	50	45	41	45	41	38	36			
	6	69	57	50	44	65	55	48	43	50	44	40	46	41	37	41	37	34	32			
	7	64	52	45	39	61	50	43	38	46	40	36	42	37	33	38	34	31	29			
	8	60	48	41	35	57	46	39	34	42	37	32	39	34	30	35	31	28	26			
	9	56	44	37	32	53	43	36	31	39	33	30	36	31	28	33	29	26	24			
	10	53	41	34	29	50	39	33	29	36	31	27	34	29	26	31	27	24	22			

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: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.8
10°-20°	391.9	10.5
20°-30°	505.0	13.5
30°-40°	479.9	12.8
40°-50°	411.1	11.0
50°-60°	313.0	8.4
60°-70°	197.9	5.3
70°-80°	98.8	2.6
80°-90°	27.4	0.7
90°-100°	26.8	0.7
100°-110°	83.2	2.2
110°-120°	142.2	3.8
120°-130°	187.0	5.0
130°-140°	209.9	5.6
140°-150°	205.8	5.5
150°-160°	172.7	4.6
160°-170°	114.5	3.1
170°-180°	40.0	1.1
0°-30°	1037.5	27.7
0°-40°	1517.4	40.5
0°-60°	2241.5	59.8
0°-90°	2565.6	68.5
90°-120°	252.2	6.7
90°-150°	855.0	22.8
90°-180°	1182.0	31.5
0°-180°	3747.9	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°	12	0	12	0	12	6
95°	22	19	22	19	22	25
105°	79	77	79	77	79	83
115°	143	143	143	143	143	141
125°	208	208	208	208	208	186
135°	272	269	272	269	272	209
145°	330	326	330	326	330	206
155°	376	373	376	373	376	173
165°	406	406	406	406	406	115
175°	421	422	421	422	421	40
180°	423	423	423	423	423	



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	9.0	9.4	9.4	9.4	9.4	9.4	9.4	9.9	9.5	9.9	9.2
90°	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2	12.3	12.5	10.7
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.4	11.3	10.9
95°	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.1
100°	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.0
102.5°	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1	61.0	60.9	60.6
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8	78.7	78.5	78.4
107.5°	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0	97.9	97.9	97.9
110°	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0	111.0	111.0	111.0



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0	124.2	124.4	124.4
115°	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0	144.1	144.1	144.3
117.5°	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3	163.5	163.7	164.1
120°	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2	176.2	176.2	176.9
122.5°	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6	189.8	190.0	190.4
125°	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3	209.5	209.7	210.1
127.5°	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5	228.7	229.0	229.3
130°	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6	241.8	241.9	242.1
132.5°	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3	254.7	255.0	255.0
135°	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2	273.2	273.3	273.2
137.5°	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1	291.2	291.2	291.0
140°	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3	303.3	303.3	302.9
142.5°	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3	314.2	314.1	313.9
145°	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9	330.8	330.7	330.2
147.5°	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5	345.4	345.2	344.9
150°	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8	354.6	354.3	354.0
152.5°	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1	363.8	363.5	363.0
155°	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8	375.4	375.0	374.8
157.5°	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6	386.1	385.6	385.4
160°	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0	392.5	392.1	392.0
162.5°	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9	398.4	397.8	397.8
165°	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4	405.9	405.3	405.3
167.5°	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6	412.0	411.5	411.5
170°	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1	415.5	415.0	415.1
172.5°	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6	418.1	417.5	417.6
175°	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4	420.8	420.3	420.4
177.5°	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7	422.3	421.9	422.0
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	8.8	8.9	8.5	7.9	8.1	8.3	10.2	12.0	10.6	9.5	8.9
90°	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6	19.4	20.1	20.9
97.5°	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9	34.6	35.2	36.0
100°	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3	45.9	46.6	47.3
102.5°	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3	57.8	58.3	58.8
105°	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7	77.0	77.2	77.5
107.5°	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2	96.6	96.9	97.4
110°	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9	109.3	109.8	110.3



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5	123.0	123.5	123.9
115°	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7	143.2	143.7	144.1
117.5°	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8	163.5	164.1	164.7
120°	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.9	177.5	178.1
122.5°	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5	189.2	190.1	190.8
125°	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6	208.3	209.0	209.7
127.5°	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3	227.2	228.1	228.9
130°	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0	239.0	240.0	241.1
132.5°	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2	252.0	252.8	253.6
135°	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6	269.5	270.4	271.2
137.5°	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1	287.8	288.5	289.3
140°	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3	299.0	299.7	300.4
142.5°	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7	310.4	311.1	311.8
145°	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1	326.7	327.2	327.8
147.5°	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7	341.4	342.0	342.7
150°	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7	351.2	351.6	352.1
152.5°	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6	360.0	360.5	361.0
155°	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8	373.0	373.3	373.5
157.5°	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2	384.4	384.5	384.7
160°	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0	391.2	391.3	391.5
162.5°	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3	397.4	397.4	397.4
165°	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7	405.6	405.5	405.5
167.5°	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6	412.4	412.2	411.9
170°	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4	416.2	415.9	415.7
172.5°	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9	418.7	418.5	418.2
175°	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1	421.8	421.6	421.3
177.5°	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3	423.1	422.9	422.8
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	8.7	8.5	8.1	8.4	8.8	8.7	8.7	8.2	8.2	8.2	7.7
90°	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2	12.0	11.8	11.8
92.5°	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4	11.4	11.5	11.5
95°	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8	22.8	22.8	22.7
97.5°	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4	38.4	38.4	38.4
100°	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3	49.3	49.3	49.2
102.5°	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1	61.1	61.2	61.2
105°	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8	79.0	79.2	79.2
107.5°	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.1	98.1	98.0
110°	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	110.9



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0	123.8	123.6	123.4
115°	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0	143.9	143.8	143.7
117.5°	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3	163.1	162.9	162.7
120°	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2	176.2	176.2	176.1
122.5°	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6	189.3	189.1	189.0
125°	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3	209.0	208.8	208.6
127.5°	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5	228.2	227.9	227.6
130°	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6	241.5	241.3	241.1
132.5°	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3	254.0	253.7	253.4
135°	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2	273.1	273.0	272.9
137.5°	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1	291.0	291.0	290.8
140°	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3	303.3	303.3	303.1
142.5°	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3	314.3	314.4	314.3
145°	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9	330.9	331.0	330.9
147.5°	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5	345.7	345.9	345.8
150°	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8	355.0	355.3	355.3
152.5°	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1	364.4	364.7	364.7
155°	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8	376.2	376.6	376.7
157.5°	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6	387.2	387.7	387.8
160°	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0	393.5	394.0	394.0
162.5°	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9	399.4	400.0	400.0
165°	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4	407.0	407.5	407.6
167.5°	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6	413.1	413.7	413.8
170°	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1	416.6	417.2	417.2
172.5°	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6	419.2	419.7	419.8
175°	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4	421.9	422.5	422.5
177.5°	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7	423.0	423.4	423.4
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840
 CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	7.8	7.4	7.8	7.4	7.8	7.4	7.8	7.7	8.2	8.2	8.2
90°	11.9	12.0	12.0	12.1	12.0	12.0	11.9	11.8	11.8	12.0	12.2
92.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4
95°	22.6	22.4	22.3	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.8
97.5°	38.4	38.4	38.4	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4
100°	49.1	49.1	49.0	48.9	49.0	49.1	49.1	49.2	49.3	49.3	49.3
102.5°	61.1	61.0	61.0	60.9	61.0	61.0	61.1	61.2	61.2	61.1	61.1
105°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.0	78.8
107.5°	97.6	97.3	96.8	96.4	96.8	97.3	97.6	98.0	98.1	98.1	98.0
110°	110.6	110.4	110.2	109.9	110.2	110.4	110.6	110.9	111.0	111.0	111.0



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.3	123.1	122.9	122.7	122.9	123.1	123.3	123.4	123.6	123.8	124.0
115°	143.4	143.2	143.0	142.7	143.0	143.2	143.4	143.7	143.8	143.9	144.0
117.5°	162.5	162.3	162.0	161.8	162.0	162.3	162.5	162.7	162.9	163.1	163.3
120°	175.9	175.6	175.4	175.2	175.4	175.6	175.9	176.1	176.2	176.2	176.2
122.5°	188.8	188.6	188.4	188.3	188.4	188.6	188.8	189.0	189.1	189.3	189.6
125°	208.6	208.5	208.4	208.3	208.4	208.5	208.6	208.6	208.8	209.0	209.3
127.5°	227.4	227.1	226.9	226.6	226.9	227.1	227.4	227.6	227.9	228.2	228.5
130°	240.8	240.3	240.0	239.7	240.0	240.3	240.8	241.1	241.3	241.5	241.6
132.5°	253.1	252.9	252.6	252.4	252.6	252.9	253.1	253.4	253.7	254.0	254.3
135°	272.6	272.4	272.2	271.9	272.2	272.4	272.6	272.9	273.0	273.1	273.2
137.5°	290.5	290.2	289.9	289.5	289.9	290.2	290.5	290.8	291.0	291.0	291.1
140°	302.8	302.5	302.2	301.8	302.2	302.5	302.8	303.1	303.3	303.3	303.3
142.5°	314.0	313.6	313.3	313.0	313.3	313.6	314.0	314.3	314.4	314.3	314.3
145°	330.6	330.3	330.0	329.6	330.0	330.3	330.6	330.9	331.0	330.9	330.9
147.5°	345.5	345.2	344.9	344.6	344.9	345.2	345.5	345.8	345.9	345.7	345.5
150°	355.0	354.8	354.6	354.3	354.6	354.8	355.0	355.3	355.3	355.0	354.8
152.5°	364.4	364.1	363.8	363.5	363.8	364.1	364.4	364.7	364.7	364.4	364.1
155°	376.4	376.2	376.0	375.7	376.0	376.2	376.4	376.7	376.6	376.2	375.8
157.5°	387.4	387.0	386.7	386.3	386.7	387.0	387.4	387.8	387.7	387.2	386.6
160°	393.7	393.4	393.1	392.8	393.1	393.4	393.7	394.0	394.0	393.5	393.0
162.5°	399.7	399.3	398.9	398.5	398.9	399.3	399.7	400.0	400.0	399.4	398.9
165°	407.2	406.8	406.4	406.1	406.4	406.8	407.2	407.6	407.5	407.0	406.4
167.5°	413.4	412.9	412.5	412.1	412.5	412.9	413.4	413.8	413.7	413.1	412.6
170°	416.8	416.3	415.8	415.3	415.8	416.3	416.8	417.2	417.2	416.6	416.1
172.5°	419.3	418.8	418.4	417.9	418.4	418.8	419.3	419.8	419.7	419.2	418.6
175°	422.1	421.6	421.1	420.6	421.1	421.6	422.1	422.5	422.5	421.9	421.4
177.5°	423.0	422.7	422.3	421.9	422.3	422.7	423.0	423.4	423.4	423.0	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	8.7	8.7	8.8	8.4	8.1	8.5	8.7	8.9	9.5	10.6	12.0
90°	12.3	12.5	10.7	9.0	7.3	5.6	4.1	3.2	2.2	1.3	0.4
92.5°	11.4	11.3	10.9	10.5	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	22.8	22.8	22.7	22.5	22.3	22.2	21.7	20.9	20.1	19.4	18.6
97.5°	38.4	38.4	38.1	37.8	37.5	37.2	36.7	36.0	35.2	34.6	33.9
100°	49.3	49.3	49.0	48.8	48.5	48.3	47.9	47.3	46.6	45.9	45.3
102.5°	61.0	60.9	60.6	60.3	60.0	59.8	59.3	58.8	58.3	57.8	57.3
105°	78.7	78.5	78.4	78.2	78.1	77.9	77.7	77.5	77.2	77.0	76.7
107.5°	97.9	97.9	97.9	97.9	97.9	97.9	97.7	97.4	96.9	96.6	96.2
110°	111.0	111.0	111.0	111.0	111.0	111.0	110.7	110.3	109.8	109.3	108.9



TEST NUMBER: P331676-840
 CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.2	124.4	124.4	124.5	124.5	124.6	124.4	123.9	123.5	123.0	122.5
115°	144.1	144.1	144.3	144.4	144.6	144.8	144.6	144.1	143.7	143.2	142.7
117.5°	163.5	163.7	164.1	164.6	165.0	165.5	165.4	164.7	164.1	163.5	162.8
120°	176.2	176.2	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2
122.5°	189.8	190.0	190.4	190.9	191.3	191.8	191.6	190.8	190.1	189.2	188.5
125°	209.5	209.7	210.1	210.3	210.5	210.8	210.5	209.7	209.0	208.3	207.6
127.5°	228.7	229.0	229.3	229.6	229.9	230.1	229.8	228.9	228.1	227.2	226.3
130°	241.8	241.9	242.1	242.3	242.4	242.6	242.1	241.1	240.0	239.0	238.0
132.5°	254.7	255.0	255.0	255.0	254.9	254.9	254.5	253.6	252.8	252.0	251.2
135°	273.2	273.3	273.2	273.0	272.9	272.7	272.2	271.2	270.4	269.5	268.6
137.5°	291.2	291.2	291.0	290.8	290.6	290.4	290.0	289.3	288.5	287.8	287.1
140°	303.3	303.3	302.9	302.5	302.1	301.6	301.1	300.4	299.7	299.0	298.3
142.5°	314.2	314.1	313.9	313.6	313.3	313.1	312.6	311.8	311.1	310.4	309.7
145°	330.8	330.7	330.2	329.8	329.3	328.8	328.3	327.8	327.2	326.7	326.1
147.5°	345.4	345.2	344.9	344.6	344.2	343.9	343.4	342.7	342.0	341.4	340.7
150°	354.6	354.3	354.0	353.7	353.4	353.0	352.6	352.1	351.6	351.2	350.7
152.5°	363.8	363.5	363.0	362.6	362.2	361.9	361.4	361.0	360.5	360.0	359.6
155°	375.4	375.0	374.8	374.5	374.3	374.1	373.8	373.5	373.3	373.0	372.8
157.5°	386.1	385.6	385.4	385.3	385.2	385.0	384.9	384.7	384.5	384.4	384.2
160°	392.5	392.1	392.0	391.9	391.8	391.8	391.6	391.5	391.3	391.2	391.0
162.5°	398.4	397.8	397.8	397.7	397.6	397.5	397.5	397.4	397.4	397.4	397.3
165°	405.9	405.3	405.3	405.3	405.3	405.3	405.4	405.5	405.5	405.6	405.7
167.5°	412.0	411.5	411.5	411.5	411.5	411.6	411.7	411.9	412.2	412.4	412.6
170°	415.5	415.0	415.1	415.1	415.2	415.3	415.5	415.7	415.9	416.2	416.4
172.5°	418.1	417.5	417.6	417.7	417.8	417.8	418.0	418.2	418.5	418.7	418.9
175°	420.8	420.3	420.4	420.6	420.8	420.9	421.1	421.3	421.6	421.8	422.1
177.5°	422.3	421.9	422.0	422.2	422.3	422.4	422.6	422.8	422.9	423.1	423.3
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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	8.3	8.1	7.9	8.5	8.9	8.8	9.2	9.9	9.5	9.9
90°	1.3	2.2	3.2	4.1	5.6	7.3	9.0	10.7	12.5	12.3	12.2
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.5	10.9	11.3	11.4	11.4
95°	19.4	20.1	20.9	21.7	22.2	22.3	22.5	22.7	22.8	22.8	22.8
97.5°	34.6	35.2	36.0	36.7	37.2	37.5	37.8	38.1	38.4	38.4	38.4
100°	45.9	46.6	47.3	47.9	48.3	48.5	48.8	49.0	49.3	49.3	49.3
102.5°	57.8	58.3	58.8	59.3	59.8	60.0	60.3	60.6	60.9	61.0	61.1
105°	77.0	77.2	77.5	77.7	77.9	78.1	78.2	78.4	78.5	78.7	78.8
107.5°	96.6	96.9	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0
110°	109.3	109.8	110.3	110.7	111.0	111.0	111.0	111.0	111.0	111.0	111.0



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	123.5	123.9	124.4	124.6	124.5	124.5	124.4	124.4	124.2	124.0
115°	143.2	143.7	144.1	144.6	144.8	144.6	144.4	144.3	144.1	144.1	144.0
117.5°	163.5	164.1	164.7	165.4	165.5	165.0	164.6	164.1	163.7	163.5	163.3
120°	176.9	177.5	178.1	178.7	178.7	178.1	177.5	176.9	176.2	176.2	176.2
122.5°	189.2	190.1	190.8	191.6	191.8	191.3	190.9	190.4	190.0	189.8	189.6
125°	208.3	209.0	209.7	210.5	210.8	210.5	210.3	210.1	209.7	209.5	209.3
127.5°	227.2	228.1	228.9	229.8	230.1	229.9	229.6	229.3	229.0	228.7	228.5
130°	239.0	240.0	241.1	242.1	242.6	242.4	242.3	242.1	241.9	241.8	241.6
132.5°	252.0	252.8	253.6	254.5	254.9	254.9	255.0	255.0	255.0	254.7	254.3
135°	269.5	270.4	271.2	272.2	272.7	272.9	273.0	273.2	273.3	273.2	273.2
137.5°	287.8	288.5	289.3	290.0	290.4	290.6	290.8	291.0	291.2	291.2	291.1
140°	299.0	299.7	300.4	301.1	301.6	302.1	302.5	302.9	303.3	303.3	303.3
142.5°	310.4	311.1	311.8	312.6	313.1	313.3	313.6	313.9	314.1	314.2	314.3
145°	326.7	327.2	327.8	328.3	328.8	329.3	329.8	330.2	330.7	330.8	330.9
147.5°	341.4	342.0	342.7	343.4	343.9	344.2	344.6	344.9	345.2	345.4	345.5
150°	351.2	351.6	352.1	352.6	353.0	353.4	353.7	354.0	354.3	354.6	354.8
152.5°	360.0	360.5	361.0	361.4	361.9	362.2	362.6	363.0	363.5	363.8	364.1
155°	373.0	373.3	373.5	373.8	374.1	374.3	374.5	374.8	375.0	375.4	375.8
157.5°	384.4	384.5	384.7	384.9	385.0	385.2	385.3	385.4	385.6	386.1	386.6
160°	391.2	391.3	391.5	391.6	391.8	391.8	391.9	392.0	392.1	392.5	393.0
162.5°	397.4	397.4	397.4	397.5	397.5	397.6	397.7	397.8	397.8	398.4	398.9
165°	405.6	405.5	405.5	405.4	405.3	405.3	405.3	405.3	405.3	405.9	406.4
167.5°	412.4	412.2	411.9	411.7	411.6	411.5	411.5	411.5	411.5	412.0	412.6
170°	416.2	415.9	415.7	415.5	415.3	415.2	415.1	415.1	415.0	415.5	416.1
172.5°	418.7	418.5	418.2	418.0	417.8	417.8	417.7	417.6	417.5	418.1	418.6
175°	421.8	421.6	421.3	421.1	420.9	420.8	420.6	420.4	420.3	420.8	421.4
177.5°	423.1	422.9	422.8	422.6	422.4	422.3	422.2	422.0	421.9	422.3	422.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-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°	9.4	9.4	9.4	9.4	9.4	9.4	9.0
90°	12.0	11.8	11.8	11.9	12.0	12.0	12.1
92.5°	11.4	11.5	11.5	11.5	11.5	11.5	11.5
95°	22.8	22.8	22.7	22.6	22.4	22.3	22.1
97.5°	38.4	38.4	38.4	38.4	38.4	38.4	38.3
100°	49.3	49.3	49.2	49.1	49.1	49.0	48.9
102.5°	61.1	61.2	61.2	61.1	61.0	61.0	60.9
105°	79.0	79.2	79.2	79.2	79.2	79.2	79.2
107.5°	98.1	98.1	98.0	97.6	97.3	96.8	96.4
110°	111.0	111.0	110.9	110.6	110.4	110.2	109.9



TEST NUMBER: P331676-840

CATALOG NUMBER: SA2XXRDIP-C675D330U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	123.6	123.4	123.3	123.1	122.9	122.7
115°	143.9	143.8	143.7	143.4	143.2	143.0	142.7
117.5°	163.1	162.9	162.7	162.5	162.3	162.0	161.8
120°	176.2	176.2	176.1	175.9	175.6	175.4	175.2
122.5°	189.3	189.1	189.0	188.8	188.6	188.4	188.3
125°	209.0	208.8	208.6	208.6	208.5	208.4	208.3
127.5°	228.2	227.9	227.6	227.4	227.1	226.9	226.6
130°	241.5	241.3	241.1	240.8	240.3	240.0	239.7
132.5°	254.0	253.7	253.4	253.1	252.9	252.6	252.4
135°	273.1	273.0	272.9	272.6	272.4	272.2	271.9
137.5°	291.0	291.0	290.8	290.5	290.2	289.9	289.5
140°	303.3	303.3	303.1	302.8	302.5	302.2	301.8
142.5°	314.3	314.4	314.3	314.0	313.6	313.3	313.0
145°	330.9	331.0	330.9	330.6	330.3	330.0	329.6
147.5°	345.7	345.9	345.8	345.5	345.2	344.9	344.6
150°	355.0	355.3	355.3	355.0	354.8	354.6	354.3
152.5°	364.4	364.7	364.7	364.4	364.1	363.8	363.5
155°	376.2	376.6	376.7	376.4	376.2	376.0	375.7
157.5°	387.2	387.7	387.8	387.4	387.0	386.7	386.3
160°	393.5	394.0	394.0	393.7	393.4	393.1	392.8
162.5°	399.4	400.0	400.0	399.7	399.3	398.9	398.5
165°	407.0	407.5	407.6	407.2	406.8	406.4	406.1
167.5°	413.1	413.7	413.8	413.4	412.9	412.5	412.1
170°	416.6	417.2	417.2	416.8	416.3	415.8	415.3
172.5°	419.2	419.7	419.8	419.3	418.8	418.4	417.9
175°	421.9	422.5	422.5	422.1	421.6	421.1	420.6
177.5°	423.0	423.4	423.4	423.0	422.7	422.3	421.9
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8

(END OF REPORT)