

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: P331701-840

Luminaire Tested: **SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331701-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6814.4 lumens
Efficiency: N/A
Efficacy: 119.8 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-Indirect

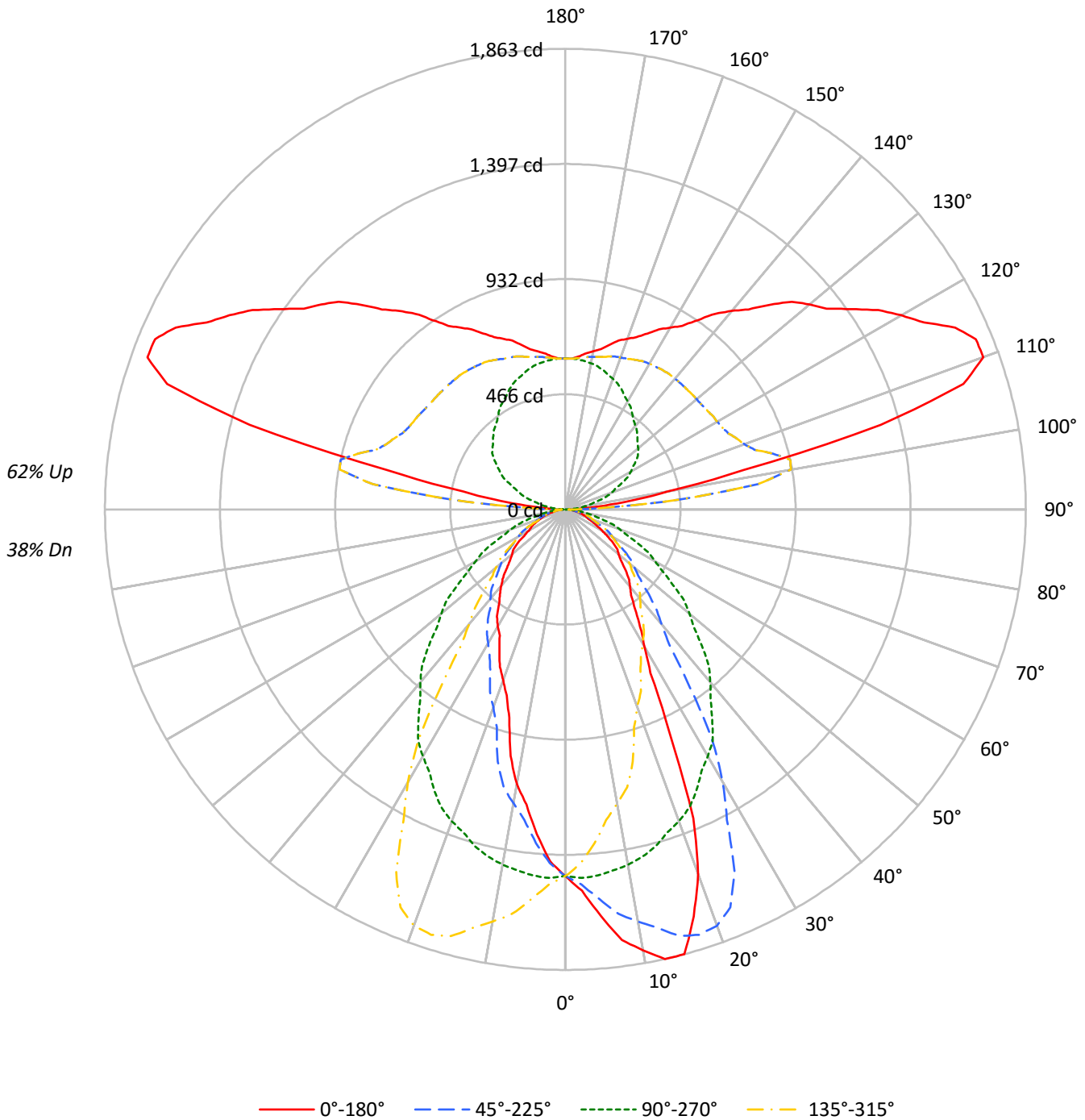
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	83	80	78	68	66	64	54	52	51	40	40	39	33
2	88	81	75	70	79	73	69	65	60	57	54	48	46	44	36	35	34	29
3	80	71	65	59	73	65	59	55	54	49	46	43	40	38	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	39	35	33	30	28	26	22
5	68	57	49	44	62	52	46	41	43	38	35	35	31	29	27	25	23	20
6	63	51	44	38	57	47	40	36	39	34	31	32	28	26	25	23	21	18
7	58	46	39	34	53	43	36	32	36	31	27	29	26	23	23	20	19	16
8	54	42	35	30	49	39	33	28	33	28	24	27	23	21	21	19	17	14
9	50	39	32	27	46	36	29	25	30	25	22	25	21	19	20	17	15	13
10	47	36	29	24	43	33	27	23	28	23	20	23	19	17	18	16	14	12

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.1
10°-20°	391.9	5.8
20°-30°	505.0	7.4
30°-40°	479.9	7.0
40°-50°	411.1	6.0
50°-60°	313.0	4.6
60°-70°	197.9	2.9
70°-80°	98.8	1.5
80°-90°	31.2	0.5
90°-100°	243.9	3.6
100°-110°	827.7	12.1
110°-120°	879.3	12.9
120°-130°	723.9	10.6
130°-140°	581.3	8.5
140°-150°	439.3	6.4
150°-160°	308.7	4.5
160°-170°	181.7	2.7
170°-180°	59.1	0.9
0°-30°	1037.5	15.2
0°-40°	1517.4	22.3
0°-60°	2241.5	32.9
0°-90°	2569.4	37.7
90°-120°	1951.0	28.6
90°-150°	3695.4	54.2
90°-180°	4245.0	62.3
0°-180°	6814.4	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°	39	1	39	1	39	21
95°	134	41	134	41	134	174
105°	1322	143	1322	143	1322	1279
115°	1740	252	1740	252	1740	1704
125°	1411	352	1411	352	1411	1275
135°	1170	413	1170	413	1170	909
145°	934	472	934	472	934	593
155°	785	536	785	536	785	366
165°	689	584	689	584	689	197
175°	621	609	621	609	621	60
180°	610	610	610	610	610	



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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°	14.3	14.7	14.7	14.7	14.7	14.5	14.0	14.9	14.7	15.3	14.7
90°	38.7	38.7	38.7	38.7	38.7	37.6	35.2	37.6	38.7	39.9	38.7
92.5°	65.0	66.9	65.9	69.7	70.6	77.9	87.8	102.3	128.9	152.5	150.4
95°	133.7	132.6	136.1	145.4	160.7	186.5	235.8	307.4	402.4	459.9	407.1
97.5°	263.3	273.1	290.2	319.1	375.2	459.9	586.8	717.2	823.5	785.1	591.3
100°	420.0	441.1	475.1	525.5	622.9	764.9	925.6	1071.1	1095.7	926.8	638.1
102.5°	739.1	767.7	810.2	896.3	1002.1	1152.5	1270.0	1302.9	1197.1	931.5	620.4
105°	1322.1	1338.6	1389.0	1461.7	1534.5	1573.2	1557.9	1425.3	1181.3	869.3	585.4
107.5°	1688.8	1710.6	1720.7	1724.7	1715.6	1658.8	1536.8	1337.2	1078.3	802.6	568.0
110°	1799.6	1800.8	1790.2	1767.9	1717.5	1621.2	1471.1	1261.1	1013.6	770.7	564.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1797.7	1791.4	1771.4	1734.1	1664.0	1553.7	1393.2	1191.6	968.6	750.1	565.2
115°	1739.8	1729.2	1698.7	1644.8	1561.5	1440.6	1287.0	1106.3	912.7	727.3	570.2
117.5°	1636.3	1627.4	1595.2	1538.2	1453.3	1340.0	1200.6	1042.0	877.5	716.3	578.6
120°	1569.6	1557.9	1523.9	1468.7	1386.6	1279.9	1155.5	1010.1	858.7	709.7	584.2
122.5°	1500.2	1490.4	1460.1	1405.8	1332.2	1235.8	1118.0	984.7	842.7	706.0	590.8
125°	1411.3	1401.9	1372.6	1328.0	1259.9	1171.9	1068.7	947.9	820.0	699.2	600.7
127.5°	1333.4	1325.9	1300.5	1258.8	1199.4	1118.2	1020.9	911.5	798.9	695.2	610.8
130°	1289.3	1279.9	1256.5	1216.6	1159.0	1081.7	989.0	888.1	784.9	693.3	618.2
132.5°	1243.2	1234.9	1213.3	1173.4	1116.8	1044.1	959.0	865.6	773.6	692.4	625.7
135°	1169.6	1164.9	1143.8	1105.1	1054.6	989.0	911.5	834.0	757.8	690.9	634.7
137.5°	1097.3	1090.4	1071.8	1038.4	992.5	935.2	873.7	809.0	746.8	690.7	642.7
140°	1047.6	1040.6	1023.0	992.5	954.9	903.3	849.4	793.0	740.2	689.8	646.4
142.5°	997.8	996.4	980.8	953.0	917.4	874.2	827.8	779.9	733.7	689.8	649.2
145°	933.8	930.3	918.6	898.6	870.5	836.5	800.1	761.3	725.0	687.4	652.3
147.5°	880.1	878.0	870.0	854.0	830.8	806.0	777.6	747.1	716.1	683.3	653.2
150°	848.2	847.0	840.0	825.9	808.3	787.2	762.5	736.7	708.5	680.4	652.3
152.5°	820.9	820.7	815.6	803.3	789.5	771.2	750.3	726.4	702.0	675.7	650.4
155°	784.9	787.2	782.4	774.3	761.3	748.4	730.8	712.1	689.8	667.5	647.5
157.5°	754.1	754.1	751.9	745.2	736.0	725.9	711.1	695.4	678.3	659.0	642.2
160°	734.4	734.4	733.2	727.3	719.1	710.9	698.0	685.1	669.8	653.5	639.3
162.5°	715.6	716.5	715.4	711.3	703.2	696.8	685.8	674.8	662.4	648.7	636.5
165°	688.6	689.8	689.8	685.1	680.4	675.7	667.5	659.3	649.9	639.3	631.2
167.5°	663.8	665.2	665.4	662.8	660.8	656.5	650.9	644.5	637.7	631.2	625.7
170°	648.7	651.1	652.3	648.7	647.5	645.2	640.6	637.0	631.2	626.4	622.9
172.5°	636.5	637.9	639.1	637.5	636.3	634.9	631.2	628.5	624.6	620.9	619.1
175°	620.6	622.9	624.1	622.9	622.9	621.8	620.6	619.5	615.9	614.7	613.6
177.5°	611.0	612.9	613.8	613.8	613.8	613.8	612.9	612.9	611.0	610.1	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



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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°	13.3	12.1	10.9	9.8	9.8	9.7	10.8	12.2	11.2	10.9	10.6
90°	31.7	23.4	17.6	14.0	11.7	9.4	4.6	1.2	4.6	9.4	11.7
92.5°	117.0	79.8	53.2	42.2	34.2	29.1	20.6	14.3	20.6	29.1	34.2
95°	270.9	169.0	114.9	86.8	68.1	57.5	45.7	41.1	45.7	57.5	68.1
97.5°	365.1	222.9	155.1	123.2	101.6	85.6	73.2	66.9	73.2	85.6	101.6
100°	384.8	241.7	179.5	146.6	123.2	104.4	93.8	90.3	93.8	104.4	123.2
102.5°	385.8	258.5	201.1	168.2	143.8	125.0	114.5	111.9	114.5	125.0	143.8
105°	391.8	287.4	232.3	199.4	173.6	156.0	147.8	143.1	147.8	156.0	173.6
107.5°	408.0	317.0	263.5	230.5	204.8	188.6	180.7	176.9	180.7	188.6	204.8
110°	421.1	336.7	285.1	251.1	226.4	211.2	204.1	199.4	204.1	211.2	226.4



TEST NUMBER: P331701-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	435.3	355.5	305.7	270.7	247.0	232.8	224.8	220.0	224.8	232.8	247.0
115°	456.4	384.8	334.4	302.7	279.2	265.1	258.1	252.3	258.1	265.1	279.2
117.5°	478.9	411.7	365.1	332.2	309.7	297.3	290.2	285.6	290.2	297.3	309.7
120°	493.9	430.5	384.8	351.9	328.5	317.9	310.8	306.2	310.8	317.9	328.5
122.5°	507.1	448.4	405.5	371.6	348.2	336.7	329.6	325.9	329.6	336.7	348.2
125°	528.0	475.1	432.9	400.0	376.6	362.5	355.5	351.9	355.5	362.5	376.6
127.5°	547.3	500.0	458.9	425.2	402.6	387.2	377.3	372.5	377.3	387.2	402.6
130°	559.6	515.0	473.9	441.1	417.7	401.2	389.5	384.8	389.5	401.2	417.7
132.5°	571.8	528.2	489.0	456.2	431.7	414.3	401.7	396.1	401.7	414.3	431.7
135°	587.7	546.6	509.2	476.3	449.3	431.7	417.7	412.9	417.7	431.7	449.3
137.5°	600.0	561.7	524.6	494.1	467.4	448.6	434.5	428.9	434.5	448.6	467.4
140°	606.5	570.2	534.9	504.4	478.7	459.9	445.8	441.1	445.8	459.9	478.7
142.5°	612.2	576.7	542.5	513.8	489.0	470.2	457.1	453.3	457.1	470.2	489.0
145°	619.5	586.5	554.9	529.1	505.6	488.1	476.3	471.6	476.3	488.1	505.6
147.5°	623.4	594.5	564.7	541.8	522.3	506.0	494.8	491.3	494.8	506.0	522.3
150°	625.3	598.3	571.3	550.2	532.6	517.4	508.0	504.4	508.0	517.4	532.6
152.5°	626.2	602.1	577.8	558.7	542.0	528.6	519.3	517.6	519.3	528.6	542.0
155°	627.6	607.6	587.7	570.2	557.2	544.3	537.2	536.1	537.2	544.3	557.2
157.5°	627.6	611.7	594.8	580.0	569.7	558.5	552.8	551.6	552.8	558.5	569.7
160°	627.6	613.6	599.5	586.5	577.1	567.7	563.1	561.9	563.1	567.7	577.1
162.5°	626.7	614.5	602.3	592.2	583.7	576.2	571.6	572.3	571.6	576.2	583.7
165°	624.1	615.9	605.3	598.3	592.4	585.4	583.1	584.2	583.1	585.4	592.4
167.5°	622.5	615.6	607.9	603.5	599.3	594.8	592.7	594.1	592.7	594.8	599.3
170°	620.6	614.7	608.8	605.3	603.0	599.5	598.3	600.7	598.3	599.5	603.0
172.5°	617.7	613.8	609.8	607.2	605.8	602.3	603.0	604.4	603.0	602.3	605.8
175°	614.7	612.4	610.1	608.8	608.8	606.5	607.6	608.8	607.6	606.5	608.8
177.5°	612.9	611.0	610.1	610.1	610.1	608.1	609.0	611.0	609.0	608.1	610.1
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331701-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4

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°	10.6	10.9	11.3	12.9	14.3	14.1	13.9	13.3	12.8	13.3	13.1
90°	14.0	17.6	23.4	31.7	38.7	39.9	38.7	37.6	35.2	37.6	38.7
92.5°	42.2	53.2	79.8	117.0	150.4	152.5	128.9	102.3	87.8	77.9	70.6
95°	86.8	114.9	169.0	270.9	407.1	459.9	402.4	307.4	235.8	186.5	160.7
97.5°	123.2	155.1	222.9	365.1	591.3	785.1	823.5	717.2	586.8	459.9	375.2
100°	146.6	179.5	241.7	384.8	638.1	926.8	1095.7	1071.1	925.6	764.9	622.9
102.5°	168.2	201.1	258.5	385.8	620.4	931.5	1197.1	1302.9	1270.0	1152.5	1002.1
105°	199.4	232.3	287.4	391.8	585.4	869.3	1181.3	1425.3	1557.9	1573.2	1534.5
107.5°	230.5	263.5	317.0	408.0	568.0	802.6	1078.3	1337.2	1536.8	1658.8	1715.6
110°	251.1	285.1	336.7	421.1	564.3	770.7	1013.6	1261.1	1471.1	1621.2	1717.5



TEST NUMBER: P331701-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	270.7	305.7	355.5	435.3	565.2	750.1	968.6	1191.6	1393.2	1553.7	1664.0
115°	302.7	334.4	384.8	456.4	570.2	727.3	912.7	1106.3	1287.0	1440.6	1561.5
117.5°	332.2	365.1	411.7	478.9	578.6	716.3	877.5	1042.0	1200.6	1340.0	1453.3
120°	351.9	384.8	430.5	493.9	584.2	709.7	858.7	1010.1	1155.5	1279.9	1386.6
122.5°	371.6	405.5	448.4	507.1	590.8	706.0	842.7	984.7	1118.0	1235.8	1332.2
125°	400.0	432.9	475.1	528.0	600.7	699.2	820.0	947.9	1068.7	1171.9	1259.9
127.5°	425.2	458.9	500.0	547.3	610.8	695.2	798.9	911.5	1020.9	1118.2	1199.4
130°	441.1	473.9	515.0	559.6	618.2	693.3	784.9	888.1	989.0	1081.7	1159.0
132.5°	456.2	489.0	528.2	571.8	625.7	692.4	773.6	865.6	959.0	1044.1	1116.8
135°	476.3	509.2	546.6	587.7	634.7	690.9	757.8	834.0	911.5	989.0	1054.6
137.5°	494.1	524.6	561.7	600.0	642.7	690.7	746.8	809.0	873.7	935.2	992.5
140°	504.4	534.9	570.2	606.5	646.4	689.8	740.2	793.0	849.4	903.3	954.9
142.5°	513.8	542.5	576.7	612.2	649.2	689.8	733.7	779.9	827.8	874.2	917.4
145°	529.1	554.9	586.5	619.5	652.3	687.4	725.0	761.3	800.1	836.5	870.5
147.5°	541.8	564.7	594.5	623.4	653.2	683.3	716.1	747.1	777.6	806.0	830.8
150°	550.2	571.3	598.3	625.3	652.3	680.4	708.5	736.7	762.5	787.2	808.3
152.5°	558.7	577.8	602.1	626.2	650.4	675.7	702.0	726.4	750.3	771.2	789.5
155°	570.2	587.7	607.6	627.6	647.5	667.5	689.8	712.1	730.8	748.4	761.3
157.5°	580.0	594.8	611.7	627.6	642.2	659.0	678.3	695.4	711.1	725.9	736.0
160°	586.5	599.5	613.6	627.6	639.3	653.5	669.8	685.1	698.0	710.9	719.1
162.5°	592.2	602.3	614.5	626.7	636.5	648.7	662.4	674.8	685.8	696.8	703.2
165°	598.3	605.3	615.9	624.1	631.2	639.3	649.9	659.3	667.5	675.7	680.4
167.5°	603.5	607.9	615.6	622.5	625.7	631.2	637.7	644.5	650.9	656.5	660.8
170°	605.3	608.8	614.7	620.6	622.9	626.4	631.2	637.0	640.6	645.2	647.5
172.5°	607.2	609.8	613.8	617.7	619.1	620.9	624.6	628.5	631.2	634.9	636.3
175°	608.8	610.1	612.4	614.7	613.6	614.7	615.9	619.5	620.6	621.8	622.9
177.5°	610.1	610.1	611.0	612.9	611.0	610.1	611.0	612.9	612.9	613.8	613.8
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331701-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4

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°	13.1	12.7	13.1	12.7	13.1	12.7	13.1	13.1	13.3	12.8	13.3
90°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	37.6	35.2	37.6
92.5°	69.7	65.9	66.9	65.0	66.9	65.9	69.7	70.6	77.9	87.8	102.3
95°	145.4	136.1	132.6	133.7	132.6	136.1	145.4	160.7	186.5	235.8	307.4
97.5°	319.1	290.2	273.1	263.3	273.1	290.2	319.1	375.2	459.9	586.8	717.2
100°	525.5	475.1	441.1	420.0	441.1	475.1	525.5	622.9	764.9	925.6	1071.1
102.5°	896.3	810.2	767.7	739.1	767.7	810.2	896.3	1002.1	1152.5	1270.0	1302.9
105°	1461.7	1389.0	1338.6	1322.1	1338.6	1389.0	1461.7	1534.5	1573.2	1557.9	1425.3
107.5°	1724.7	1720.7	1710.6	1688.8	1710.6	1720.7	1724.7	1715.6	1658.8	1536.8	1337.2
110°	1767.9	1790.2	1800.8	1799.6	1800.8	1790.2	1767.9	1717.5	1621.2	1471.1	1261.1



TEST NUMBER: P331701-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1734.1	1771.4	1791.4	1797.7	1791.4	1771.4	1734.1	1664.0	1553.7	1393.2	1191.6
115°	1644.8	1698.7	1729.2	1739.8	1729.2	1698.7	1644.8	1561.5	1440.6	1287.0	1106.3
117.5°	1538.2	1595.2	1627.4	1636.3	1627.4	1595.2	1538.2	1453.3	1340.0	1200.6	1042.0
120°	1468.7	1523.9	1557.9	1569.6	1557.9	1523.9	1468.7	1386.6	1279.9	1155.5	1010.1
122.5°	1405.8	1460.1	1490.4	1500.2	1490.4	1460.1	1405.8	1332.2	1235.8	1118.0	984.7
125°	1328.0	1372.6	1401.9	1411.3	1401.9	1372.6	1328.0	1259.9	1171.9	1068.7	947.9
127.5°	1258.8	1300.5	1325.9	1333.4	1325.9	1300.5	1258.8	1199.4	1118.2	1020.9	911.5
130°	1216.6	1256.5	1279.9	1289.3	1279.9	1256.5	1216.6	1159.0	1081.7	989.0	888.1
132.5°	1173.4	1213.3	1234.9	1243.2	1234.9	1213.3	1173.4	1116.8	1044.1	959.0	865.6
135°	1105.1	1143.8	1164.9	1169.6	1164.9	1143.8	1105.1	1054.6	989.0	911.5	834.0
137.5°	1038.4	1071.8	1090.4	1097.3	1090.4	1071.8	1038.4	992.5	935.2	873.7	809.0
140°	992.5	1023.0	1040.6	1047.6	1040.6	1023.0	992.5	954.9	903.3	849.4	793.0
142.5°	953.0	980.8	996.4	997.8	996.4	980.8	953.0	917.4	874.2	827.8	779.9
145°	898.6	918.6	930.3	933.8	930.3	918.6	898.6	870.5	836.5	800.1	761.3
147.5°	854.0	870.0	878.0	880.1	878.0	870.0	854.0	830.8	806.0	777.6	747.1
150°	825.9	840.0	847.0	848.2	847.0	840.0	825.9	808.3	787.2	762.5	736.7
152.5°	803.3	815.6	820.7	820.9	820.7	815.6	803.3	789.5	771.2	750.3	726.4
155°	774.3	782.4	787.2	784.9	787.2	782.4	774.3	761.3	748.4	730.8	712.1
157.5°	745.2	751.9	754.1	754.1	754.1	751.9	745.2	736.0	725.9	711.1	695.4
160°	727.3	733.2	734.4	734.4	734.4	733.2	727.3	719.1	710.9	698.0	685.1
162.5°	711.3	715.4	716.5	715.6	716.5	715.4	711.3	703.2	696.8	685.8	674.8
165°	685.1	689.8	689.8	688.6	689.8	689.8	685.1	680.4	675.7	667.5	659.3
167.5°	662.8	665.4	665.2	663.8	665.2	665.4	662.8	660.8	656.5	650.9	644.5
170°	648.7	652.3	651.1	648.7	651.1	652.3	648.7	647.5	645.2	640.6	637.0
172.5°	637.5	639.1	637.9	636.5	637.9	639.1	637.5	636.3	634.9	631.2	628.5
175°	622.9	624.1	622.9	620.6	622.9	624.1	622.9	622.9	621.8	620.6	619.5
177.5°	613.8	613.8	612.9	611.0	612.9	613.8	613.8	613.8	613.8	612.9	612.9
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331701-840

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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°	13.9	14.1	14.3	12.9	11.3	10.9	10.6	10.6	10.9	11.2	12.2
90°	38.7	39.9	38.7	31.7	23.4	17.6	14.0	11.7	9.4	4.6	1.2
92.5°	128.9	152.5	150.4	117.0	79.8	53.2	42.2	34.2	29.1	20.6	14.3
95°	402.4	459.9	407.1	270.9	169.0	114.9	86.8	68.1	57.5	45.7	41.1
97.5°	823.5	785.1	591.3	365.1	222.9	155.1	123.2	101.6	85.6	73.2	66.9
100°	1095.7	926.8	638.1	384.8	241.7	179.5	146.6	123.2	104.4	93.8	90.3
102.5°	1197.1	931.5	620.4	385.8	258.5	201.1	168.2	143.8	125.0	114.5	111.9
105°	1181.3	869.3	585.4	391.8	287.4	232.3	199.4	173.6	156.0	147.8	143.1
107.5°	1078.3	802.6	568.0	408.0	317.0	263.5	230.5	204.8	188.6	180.7	176.9
110°	1013.6	770.7	564.3	421.1	336.7	285.1	251.1	226.4	211.2	204.1	199.4



TEST NUMBER: P331701-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	968.6	750.1	565.2	435.3	355.5	305.7	270.7	247.0	232.8	224.8	220.0
115°	912.7	727.3	570.2	456.4	384.8	334.4	302.7	279.2	265.1	258.1	252.3
117.5°	877.5	716.3	578.6	478.9	411.7	365.1	332.2	309.7	297.3	290.2	285.6
120°	858.7	709.7	584.2	493.9	430.5	384.8	351.9	328.5	317.9	310.8	306.2
122.5°	842.7	706.0	590.8	507.1	448.4	405.5	371.6	348.2	336.7	329.6	325.9
125°	820.0	699.2	600.7	528.0	475.1	432.9	400.0	376.6	362.5	355.5	351.9
127.5°	798.9	695.2	610.8	547.3	500.0	458.9	425.2	402.6	387.2	377.3	372.5
130°	784.9	693.3	618.2	559.6	515.0	473.9	441.1	417.7	401.2	389.5	384.8
132.5°	773.6	692.4	625.7	571.8	528.2	489.0	456.2	431.7	414.3	401.7	396.1
135°	757.8	690.9	634.7	587.7	546.6	509.2	476.3	449.3	431.7	417.7	412.9
137.5°	746.8	690.7	642.7	600.0	561.7	524.6	494.1	467.4	448.6	434.5	428.9
140°	740.2	689.8	646.4	606.5	570.2	534.9	504.4	478.7	459.9	445.8	441.1
142.5°	733.7	689.8	649.2	612.2	576.7	542.5	513.8	489.0	470.2	457.1	453.3
145°	725.0	687.4	652.3	619.5	586.5	554.9	529.1	505.6	488.1	476.3	471.6
147.5°	716.1	683.3	653.2	623.4	594.5	564.7	541.8	522.3	506.0	494.8	491.3
150°	708.5	680.4	652.3	625.3	598.3	571.3	550.2	532.6	517.4	508.0	504.4
152.5°	702.0	675.7	650.4	626.2	602.1	577.8	558.7	542.0	528.6	519.3	517.6
155°	689.8	667.5	647.5	627.6	607.6	587.7	570.2	557.2	544.3	537.2	536.1
157.5°	678.3	659.0	642.2	627.6	611.7	594.8	580.0	569.7	558.5	552.8	551.6
160°	669.8	653.5	639.3	627.6	613.6	599.5	586.5	577.1	567.7	563.1	561.9
162.5°	662.4	648.7	636.5	626.7	614.5	602.3	592.2	583.7	576.2	571.6	572.3
165°	649.9	639.3	631.2	624.1	615.9	605.3	598.3	592.4	585.4	583.1	584.2
167.5°	637.7	631.2	625.7	622.5	615.6	607.9	603.5	599.3	594.8	592.7	594.1
170°	631.2	626.4	622.9	620.6	614.7	608.8	605.3	603.0	599.5	598.3	600.7
172.5°	624.6	620.9	619.1	617.7	613.8	609.8	607.2	605.8	602.3	603.0	604.4
175°	615.9	614.7	613.6	614.7	612.4	610.1	608.8	608.8	606.5	607.6	608.8
177.5°	611.0	610.1	611.0	612.9	611.0	610.1	610.1	610.1	608.1	609.0	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331701-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-A4

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°	10.8	9.7	9.8	9.8	10.9	12.1	13.3	14.7	15.3	14.7	14.9
90°	4.6	9.4	11.7	14.0	17.6	23.4	31.7	38.7	39.9	38.7	37.6
92.5°	20.6	29.1	34.2	42.2	53.2	79.8	117.0	150.4	152.5	128.9	102.3
95°	45.7	57.5	68.1	86.8	114.9	169.0	270.9	407.1	459.9	402.4	307.4
97.5°	73.2	85.6	101.6	123.2	155.1	222.9	365.1	591.3	785.1	823.5	717.2
100°	93.8	104.4	123.2	146.6	179.5	241.7	384.8	638.1	926.8	1095.7	1071.1
102.5°	114.5	125.0	143.8	168.2	201.1	258.5	385.8	620.4	931.5	1197.1	1302.9
105°	147.8	156.0	173.6	199.4	232.3	287.4	391.8	585.4	869.3	1181.3	1425.3
107.5°	180.7	188.6	204.8	230.5	263.5	317.0	408.0	568.0	802.6	1078.3	1337.2
110°	204.1	211.2	226.4	251.1	285.1	336.7	421.1	564.3	770.7	1013.6	1261.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	224.8	232.8	247.0	270.7	305.7	355.5	435.3	565.2	750.1	968.6	1191.6
115°	258.1	265.1	279.2	302.7	334.4	384.8	456.4	570.2	727.3	912.7	1106.3
117.5°	290.2	297.3	309.7	332.2	365.1	411.7	478.9	578.6	716.3	877.5	1042.0
120°	310.8	317.9	328.5	351.9	384.8	430.5	493.9	584.2	709.7	858.7	1010.1
122.5°	329.6	336.7	348.2	371.6	405.5	448.4	507.1	590.8	706.0	842.7	984.7
125°	355.5	362.5	376.6	400.0	432.9	475.1	528.0	600.7	699.2	820.0	947.9
127.5°	377.3	387.2	402.6	425.2	458.9	500.0	547.3	610.8	695.2	798.9	911.5
130°	389.5	401.2	417.7	441.1	473.9	515.0	559.6	618.2	693.3	784.9	888.1
132.5°	401.7	414.3	431.7	456.2	489.0	528.2	571.8	625.7	692.4	773.6	865.6
135°	417.7	431.7	449.3	476.3	509.2	546.6	587.7	634.7	690.9	757.8	834.0
137.5°	434.5	448.6	467.4	494.1	524.6	561.7	600.0	642.7	690.7	746.8	809.0
140°	445.8	459.9	478.7	504.4	534.9	570.2	606.5	646.4	689.8	740.2	793.0
142.5°	457.1	470.2	489.0	513.8	542.5	576.7	612.2	649.2	689.8	733.7	779.9
145°	476.3	488.1	505.6	529.1	554.9	586.5	619.5	652.3	687.4	725.0	761.3
147.5°	494.8	506.0	522.3	541.8	564.7	594.5	623.4	653.2	683.3	716.1	747.1
150°	508.0	517.4	532.6	550.2	571.3	598.3	625.3	652.3	680.4	708.5	736.7
152.5°	519.3	528.6	542.0	558.7	577.8	602.1	626.2	650.4	675.7	702.0	726.4
155°	537.2	544.3	557.2	570.2	587.7	607.6	627.6	647.5	667.5	689.8	712.1
157.5°	552.8	558.5	569.7	580.0	594.8	611.7	627.6	642.2	659.0	678.3	695.4
160°	563.1	567.7	577.1	586.5	599.5	613.6	627.6	639.3	653.5	669.8	685.1
162.5°	571.6	576.2	583.7	592.2	602.3	614.5	626.7	636.5	648.7	662.4	674.8
165°	583.1	585.4	592.4	598.3	605.3	615.9	624.1	631.2	639.3	649.9	659.3
167.5°	592.7	594.8	599.3	603.5	607.9	615.6	622.5	625.7	631.2	637.7	644.5
170°	598.3	599.5	603.0	605.3	608.8	614.7	620.6	622.9	626.4	631.2	637.0
172.5°	603.0	602.3	605.8	607.2	609.8	613.8	617.7	619.1	620.9	624.6	628.5
175°	607.6	606.5	608.8	608.8	610.1	612.4	614.7	613.6	614.7	615.9	619.5
177.5°	609.0	608.1	610.1	610.1	610.1	611.0	612.9	611.0	610.1	611.0	612.9
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



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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°	14.0	14.5	14.7	14.7	14.7	14.7	14.3
90°	35.2	37.6	38.7	38.7	38.7	38.7	38.7
92.5°	87.8	77.9	70.6	69.7	65.9	66.9	65.0
95°	235.8	186.5	160.7	145.4	136.1	132.6	133.7
97.5°	586.8	459.9	375.2	319.1	290.2	273.1	263.3
100°	925.6	764.9	622.9	525.5	475.1	441.1	420.0
102.5°	1270.0	1152.5	1002.1	896.3	810.2	767.7	739.1
105°	1557.9	1573.2	1534.5	1461.7	1389.0	1338.6	1322.1
107.5°	1536.8	1658.8	1715.6	1724.7	1720.7	1710.6	1688.8
110°	1471.1	1621.2	1717.5	1767.9	1790.2	1800.8	1799.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1393.2	1553.7	1664.0	1734.1	1771.4	1791.4	1797.7
115°	1287.0	1440.6	1561.5	1644.8	1698.7	1729.2	1739.8
117.5°	1200.6	1340.0	1453.3	1538.2	1595.2	1627.4	1636.3
120°	1155.5	1279.9	1386.6	1468.7	1523.9	1557.9	1569.6
122.5°	1118.0	1235.8	1332.2	1405.8	1460.1	1490.4	1500.2
125°	1068.7	1171.9	1259.9	1328.0	1372.6	1401.9	1411.3
127.5°	1020.9	1118.2	1199.4	1258.8	1300.5	1325.9	1333.4
130°	989.0	1081.7	1159.0	1216.6	1256.5	1279.9	1289.3
132.5°	959.0	1044.1	1116.8	1173.4	1213.3	1234.9	1243.2
135°	911.5	989.0	1054.6	1105.1	1143.8	1164.9	1169.6
137.5°	873.7	935.2	992.5	1038.4	1071.8	1090.4	1097.3
140°	849.4	903.3	954.9	992.5	1023.0	1040.6	1047.6
142.5°	827.8	874.2	917.4	953.0	980.8	996.4	997.8
145°	800.1	836.5	870.5	898.6	918.6	930.3	933.8
147.5°	777.6	806.0	830.8	854.0	870.0	878.0	880.1
150°	762.5	787.2	808.3	825.9	840.0	847.0	848.2
152.5°	750.3	771.2	789.5	803.3	815.6	820.7	820.9
155°	730.8	748.4	761.3	774.3	782.4	787.2	784.9
157.5°	711.1	725.9	736.0	745.2	751.9	754.1	754.1
160°	698.0	710.9	719.1	727.3	733.2	734.4	734.4
162.5°	685.8	696.8	703.2	711.3	715.4	716.5	715.6
165°	667.5	675.7	680.4	685.1	689.8	689.8	688.6
167.5°	650.9	656.5	660.8	662.8	665.4	665.2	663.8
170°	640.6	645.2	647.5	648.7	652.3	651.1	648.7
172.5°	631.2	634.9	636.3	637.5	639.1	637.9	636.5
175°	620.6	621.8	622.9	622.9	624.1	622.9	620.6
177.5°	612.9	613.8	613.8	613.8	613.8	612.9	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)