

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

Luminaire Tested: **SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331701
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-C675D1080U835-4F0-1E-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: 6747.9 lumens
Efficiency: N/A
Efficacy: 118.6 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

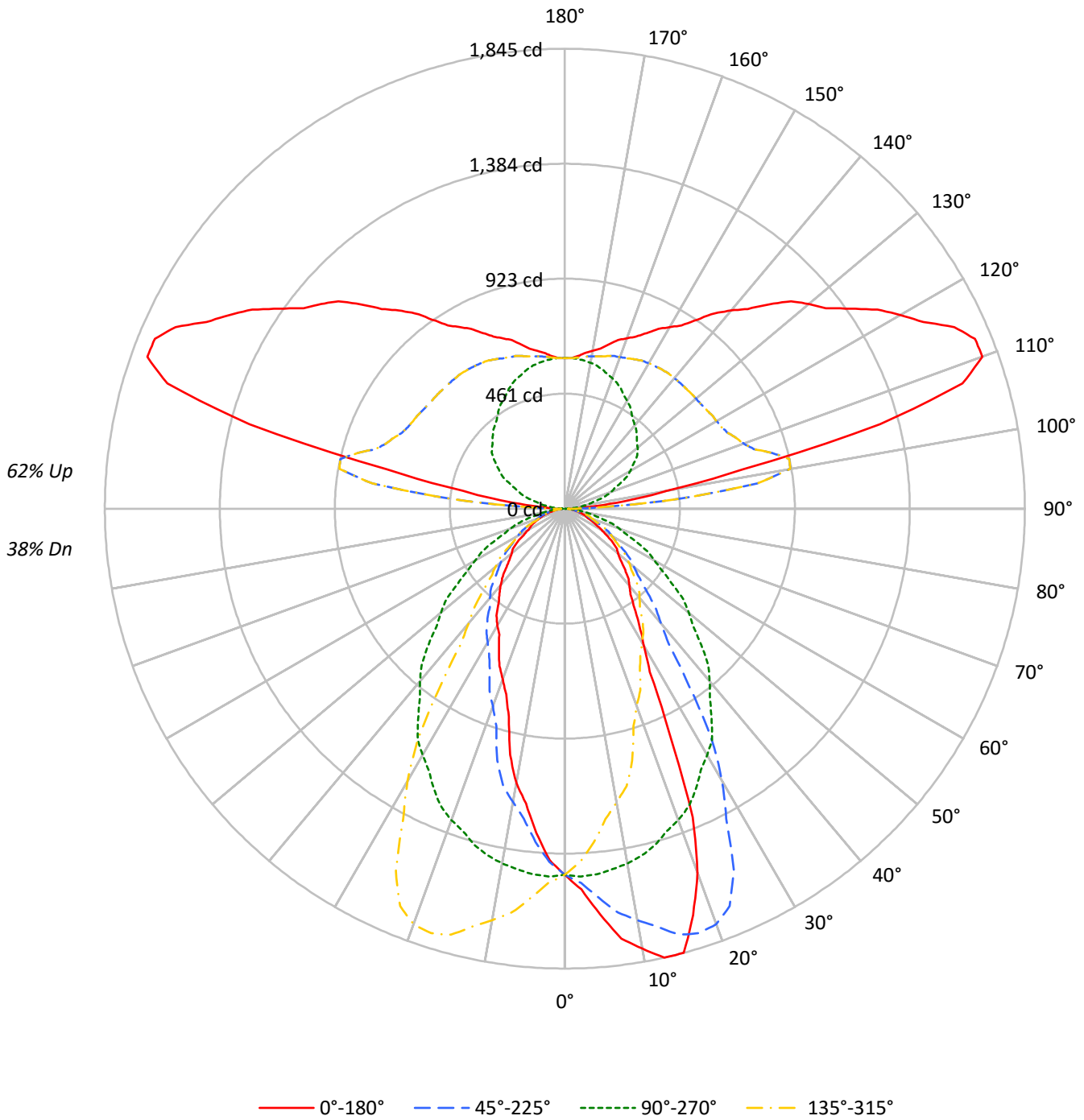
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23720	23720	23720	23720
5°	26491	23869	21162	23869
10°	29391	23700	18344	23700
15°	30837	23353	14454	23353
20°	26734	22838	12507	22838
25°	17533	22133	11166	22133
30°	11801	21280	10107	21280
35°	9558	20203	9116	20203
40°	8500	19032	8435	19032
45°	7693	17657	7531	17657
50°	7001	16297	6975	16297
55°	6581	14787	6494	14787
60°	5506	13401	5438	13401
65°	4642	12168	5265	12168
70°	4291	10867	4966	10867
75°	4011	9457	4585	9457
80°	3701	7782	4082	7782
85°	3409	6150	3594	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	2.1
10°-20°	388.0	5.8
20°-30°	500.0	7.4
30°-40°	475.2	7.0
40°-50°	407.1	6.0
50°-60°	310.0	4.6
60°-70°	196.0	2.9
70°-80°	97.9	1.5
80°-90°	30.9	0.5
90°-100°	241.5	3.6
100°-110°	819.6	12.1
110°-120°	870.7	12.9
120°-130°	716.8	10.6
130°-140°	575.6	8.5
140°-150°	435.0	6.4
150°-160°	305.7	4.5
160°-170°	180.0	2.7
170°-180°	58.6	0.9
0°-30°	1027.3	15.2
0°-40°	1502.5	22.3
0°-60°	2219.6	32.9
0°-90°	2544.3	37.7
90°-120°	1931.9	28.6
90°-150°	3659.3	54.2
90°-180°	4204.0	62.3
0°-180°	6747.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1634	1473	1306	1473	1634	161
15°	1845	1397	865	1397	1845	498
25°	984	1242	627	1242	984	467
35°	485	1025	462	1025	485	310
45°	337	773	330	773	337	261
55°	234	525	231	525	234	205
65°	122	318	138	318	122	124
75°	64	152	74	152	64	68
85°	18	33	19	33	18	21
90°	38	1	38	1	38	21
95°	132	41	132	41	132	172
105°	1309	142	1309	142	1309	1267
115°	1723	250	1723	250	1723	1687
125°	1398	348	1398	348	1398	1263
135°	1158	409	1158	409	1158	900
145°	925	467	925	467	925	587
155°	777	531	777	531	777	363
165°	682	578	682	578	682	195
175°	614	603	614	603	614	60
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1528.7	1529.9	1531.2	1528.3	1528.3	1525.8	1520.5	1516.5	1505.0	1503.4	1503.4
5°	1634.5	1633.4	1635.5	1628.9	1619.7	1617.6	1607.9	1595.2	1581.9	1567.1	1564.0
7.5°	1739.6	1738.1	1734.0	1732.9	1725.8	1710.4	1694.8	1678.2	1656.1	1634.6	1623.8
10°	1792.7	1809.6	1799.3	1781.5	1785.1	1761.1	1748.3	1726.4	1708.0	1675.8	1668.7
12.5°	1845.0	1851.6	1848.4	1838.2	1833.6	1817.0	1799.8	1780.7	1746.8	1717.9	1692.8
15°	1844.8	1854.5	1857.0	1854.0	1856.5	1855.5	1846.3	1830.5	1800.9	1769.2	1741.7
17.5°	1708.6	1715.3	1732.1	1743.4	1757.7	1787.9	1802.8	1808.6	1804.2	1786.2	1766.8
20°	1555.9	1544.6	1591.6	1615.6	1636.0	1687.0	1730.9	1747.8	1774.8	1774.3	1769.2
22.5°	1339.4	1342.1	1386.6	1415.1	1474.7	1525.7	1575.8	1639.2	1691.5	1726.1	1746.4
25°	984.2	1003.6	1048.0	1086.8	1153.1	1248.1	1334.3	1434.4	1528.8	1603.3	1674.3
27.5°	739.1	740.6	775.8	811.6	851.0	928.8	1037.4	1156.9	1291.5	1402.6	1530.4
30°	633.0	629.9	644.7	666.7	700.3	760.6	842.2	959.7	1093.9	1261.3	1410.4
32.5°	557.8	558.0	569.2	585.4	613.4	654.0	709.9	805.3	932.2	1096.8	1271.5
35°	484.9	484.4	492.6	504.3	516.1	542.1	580.4	630.4	717.7	871.3	1050.0
37.5°	432.7	434.9	438.9	446.2	459.2	473.7	496.7	530.3	592.4	683.3	833.5
40°	403.3	404.3	409.9	416.0	423.7	434.9	453.8	480.8	526.3	598.8	708.5
42.5°	376.3	377.3	381.3	387.0	393.0	404.3	419.9	443.3	480.1	536.7	627.2
45°	336.9	336.9	340.5	343.0	349.7	359.9	372.6	392.0	417.6	459.4	519.6
47.5°	299.9	300.0	302.4	306.8	311.0	318.9	331.5	347.3	365.9	398.3	449.7
50°	278.7	279.2	280.7	284.3	286.9	294.0	303.7	317.5	336.9	361.9	404.8
52.5°	261.6	261.2	263.2	264.7	266.5	271.6	278.8	291.0	308.3	330.1	365.6
55°	233.8	231.7	234.8	237.4	238.9	240.9	245.0	252.7	267.5	285.9	312.4
57.5°	199.1	198.3	200.4	202.8	207.6	213.1	216.5	221.4	229.1	242.3	268.6
60°	170.5	170.5	175.1	176.6	182.2	189.4	196.5	200.6	208.3	216.9	236.3
62.5°	145.2	145.6	147.7	149.3	152.4	161.2	171.2	180.2	187.4	195.7	208.6
65°	121.5	122.5	122.5	123.5	125.6	127.6	131.7	138.8	151.6	163.3	173.0
67.5°	103.1	103.4	103.7	104.7	105.3	107.5	109.1	112.3	115.3	126.4	138.4
70°	90.9	92.4	91.9	92.9	93.4	94.4	96.5	98.0	102.6	105.2	112.3
72.5°	79.4	80.5	80.4	81.1	82.4	82.6	84.2	85.8	88.7	90.9	94.7
75°	64.3	63.8	64.3	65.3	65.8	66.4	66.4	68.4	69.9	72.0	74.5
77.5°	49.6	50.1	50.0	50.1	50.2	51.1	51.0	52.0	53.5	54.5	55.7
80°	39.8	40.3	39.8	40.3	40.8	41.3	40.8	41.3	42.9	43.9	43.9
82.5°	30.8	30.9	31.2	31.3	31.4	31.5	32.3	32.4	33.5	33.3	33.7
85°	18.4	17.9	17.9	17.9	18.4	18.9	18.4	18.4	18.9	18.9	18.9
87.5°	14.2	14.6	14.6	14.6	14.6	14.4	13.9	14.8	14.6	15.2	14.6
90°	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2	38.3	39.5	38.3
92.5°	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3	127.6	151.0	148.9
95°	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4	398.5	455.4	403.1
97.5°	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2	815.5	777.4	585.5
100°	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6	1085.0	917.7	631.9
102.5°	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2	1185.4	922.4	614.3
105°	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4	1169.8	860.8	579.7
107.5°	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1	1067.8	794.8	562.5
110°	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8	1003.7	763.2	558.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0	959.1	742.8	559.7
115°	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5	903.8	720.2	564.6
117.5°	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8	868.9	709.3	572.9
120°	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2	850.3	702.8	578.5
122.5°	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1	834.5	699.1	585.0
125°	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6	812.0	692.4	594.8
127.5°	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6	791.1	688.4	604.8
130°	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4	777.2	686.5	612.2
132.5°	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1	766.0	685.6	619.6
135°	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9	750.4	684.2	628.5
137.5°	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1	739.5	684.0	636.4
140°	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3	733.0	683.1	640.1
142.5°	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3	726.5	683.1	642.9
145°	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9	717.9	680.7	645.9
147.5°	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8	709.1	676.6	646.8
150°	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5	701.6	673.8	645.9
152.5°	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3	695.1	669.1	644.0
155°	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1	683.1	661.0	641.2
157.5°	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6	671.7	652.6	635.9
160°	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4	663.3	647.1	633.1
162.5°	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2	655.9	642.4	630.3
165°	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9	643.6	633.1	625.0
167.5°	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2	631.5	625.0	619.6
170°	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8	625.0	620.3	616.8
172.5°	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4	618.5	614.8	613.1
175°	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4	609.9	608.7	607.6
177.5°	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9	605.0	604.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1504.2	1500.9	1498.1	1490.7	1487.1	1478.9	1477.7	1477.3	1466.6	1456.4	1453.6
5°	1555.9	1547.7	1535.4	1521.1	1506.3	1491.0	1480.8	1472.7	1452.2	1432.8	1421.6
7.5°	1607.9	1590.4	1569.2	1542.2	1519.6	1494.3	1475.5	1458.7	1429.7	1401.9	1383.2
10°	1646.7	1618.1	1590.1	1552.8	1523.7	1495.1	1468.6	1445.6	1412.9	1376.2	1350.1
12.5°	1670.8	1639.4	1600.7	1564.2	1526.6	1490.2	1454.7	1425.2	1386.8	1348.8	1317.9
15°	1703.4	1669.7	1622.7	1570.7	1522.2	1474.7	1433.9	1397.1	1347.1	1301.7	1263.9
17.5°	1730.0	1683.7	1633.2	1573.0	1516.9	1456.5	1403.9	1357.0	1301.3	1246.5	1202.0
20°	1738.6	1692.7	1634.5	1574.2	1507.9	1436.9	1380.3	1329.2	1269.5	1209.8	1158.7
22.5°	1733.3	1697.6	1632.8	1560.8	1492.8	1418.5	1354.5	1295.3	1229.1	1168.1	1108.9
25°	1697.3	1685.0	1623.8	1545.1	1467.6	1381.3	1307.3	1242.4	1166.9	1101.6	1037.2
27.5°	1613.2	1639.7	1601.7	1518.0	1431.7	1339.2	1256.0	1182.2	1103.8	1030.3	966.2
30°	1532.4	1593.1	1576.8	1499.2	1402.7	1311.9	1218.5	1141.4	1057.7	982.1	918.8
32.5°	1421.7	1522.1	1538.0	1473.1	1373.3	1273.5	1175.6	1098.9	1011.5	931.9	870.2
35°	1245.5	1395.6	1464.5	1423.1	1323.1	1215.4	1114.3	1025.0	937.2	858.6	797.3
37.5°	1035.3	1239.7	1354.5	1357.5	1265.6	1153.6	1043.6	954.9	865.0	787.8	721.6
40°	898.9	1120.4	1270.0	1303.2	1225.6	1104.6	993.3	903.0	815.2	739.6	663.6
42.5°	776.4	997.1	1181.0	1238.7	1177.0	1056.8	945.2	850.7	765.4	693.9	616.2
45°	627.9	820.8	1023.5	1126.6	1092.4	981.1	863.2	773.3	693.2	631.4	556.9
47.5°	529.6	665.6	861.7	1001.2	1000.6	899.0	783.0	697.0	622.7	564.8	504.4
50°	473.7	592.1	758.0	916.3	929.5	844.3	734.0	648.8	579.4	518.6	470.1
52.5°	423.5	521.1	670.2	821.9	859.7	785.9	678.9	600.2	532.8	477.0	435.4
55°	357.8	433.4	546.7	688.6	745.8	693.7	598.8	525.3	470.6	423.7	387.9
57.5°	302.7	359.4	450.3	564.6	631.1	598.4	520.0	460.3	413.6	371.1	342.9
60°	268.0	314.4	391.5	487.0	560.5	537.5	470.6	415.0	375.2	338.4	311.9
62.5°	235.3	275.2	341.3	418.8	486.2	476.7	422.0	375.4	340.5	307.0	284.5
65°	189.4	218.5	270.0	330.8	384.9	389.5	350.2	318.5	287.4	260.8	240.9
67.5°	150.8	169.8	206.1	257.3	297.8	312.3	288.3	264.1	239.4	218.9	201.6
70°	127.1	142.4	169.0	210.3	247.6	262.9	249.1	230.2	208.8	191.9	177.1
72.5°	103.0	117.9	137.5	167.8	199.8	216.3	211.5	198.0	180.6	166.6	152.6
75°	77.6	82.2	95.5	115.9	140.9	155.2	158.8	151.6	137.8	127.1	118.9
77.5°	57.4	60.1	66.5	77.2	93.5	106.3	111.5	110.7	101.2	94.9	87.3
80°	45.9	47.5	50.5	55.1	67.4	80.1	83.7	83.7	77.1	74.5	66.9
82.5°	34.9	36.0	37.9	40.4	46.1	57.3	61.3	62.1	57.9	54.5	48.5
85°	19.9	19.4	20.4	21.9	23.0	26.0	32.2	33.2	32.2	28.1	26.5
87.5°	13.2	12.0	10.8	9.7	9.7	9.6	10.7	12.1	11.1	10.8	10.5
90°	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2	4.6	9.3	11.6
92.5°	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2	20.4	28.8	33.9
95°	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7	45.3	56.9	67.4
97.5°	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2	72.5	84.8	100.6
100°	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4	92.9	103.4	122.0
102.5°	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8	113.4	123.8	142.4
105°	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7	146.4	154.5	171.9
107.5°	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2	178.9	186.8	202.8
110°	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5	202.1	209.1	224.2



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9	222.6	230.5	244.6
115°	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8	255.6	262.5	276.5
117.5°	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8	287.4	294.4	306.7
120°	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2	307.8	314.8	325.3
122.5°	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7	326.4	333.4	344.8
125°	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5	352.0	359.0	372.9
127.5°	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9	373.6	383.4	398.7
130°	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0	385.7	397.3	413.6
132.5°	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2	397.8	410.3	427.5
135°	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9	413.6	427.5	444.9
137.5°	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7	430.3	444.2	462.8
140°	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8	441.4	455.4	474.0
142.5°	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9	452.6	465.6	484.2
145°	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0	471.6	483.3	500.7
147.5°	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5	490.0	501.1	517.2
150°	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5	503.0	512.3	527.4
152.5°	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5	514.2	523.4	536.7
155°	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9	532.0	539.0	551.8
157.5°	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2	547.4	553.0	564.1
160°	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4	557.6	562.2	571.5
162.5°	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7	566.0	570.6	578.0
165°	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5	577.4	579.7	586.6
167.5°	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3	586.9	589.0	593.4
170°	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8	592.5	593.6	597.1
172.5°	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5	597.1	596.4	599.9
175°	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9	601.7	600.6	602.9
177.5°	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0	603.1	602.2	604.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1448.3	1445.4	1440.1	1431.9	1427.0	1418.4	1412.7	1416.0	1416.8	1416.0	1415.2
5°	1409.4	1398.6	1383.8	1369.5	1356.3	1342.0	1333.8	1330.2	1323.1	1319.0	1317.0
7.5°	1362.3	1343.8	1322.9	1298.0	1276.8	1254.7	1243.4	1237.7	1223.1	1215.2	1208.2
10°	1327.2	1298.1	1277.2	1244.5	1224.6	1195.5	1175.6	1176.1	1156.2	1144.9	1136.8
12.5°	1288.4	1256.4	1221.6	1192.2	1164.5	1141.2	1117.2	1107.5	1086.3	1075.5	1053.5
15°	1224.1	1186.8	1150.1	1110.2	1082.2	1045.9	1011.2	968.8	934.6	905.0	896.9
17.5°	1153.8	1107.7	1070.8	1024.1	976.0	915.0	874.8	850.2	829.6	814.0	802.3
20°	1105.6	1058.7	1019.4	948.9	884.1	842.8	813.2	794.3	772.8	756.0	746.8
22.5°	1055.0	1006.0	952.4	873.8	823.3	790.1	763.7	742.0	727.5	714.3	706.0
25°	983.1	929.5	841.2	787.1	746.3	711.6	693.2	679.9	664.6	646.7	638.6
27.5°	907.2	821.9	758.5	718.3	679.3	656.7	640.2	620.4	606.7	598.7	590.2
30°	850.4	765.2	715.7	671.8	644.2	619.2	599.8	588.6	575.3	561.5	555.9
32.5°	787.1	719.0	671.6	635.0	607.0	585.7	570.4	552.2	542.6	534.1	522.4
35°	708.5	657.0	613.6	584.0	557.4	540.1	522.2	511.5	494.1	487.0	482.4
37.5°	641.9	597.2	564.9	533.6	512.6	493.4	482.5	465.4	457.9	448.0	438.3
40°	604.4	560.5	529.3	503.8	480.3	466.0	452.3	438.5	427.2	422.7	410.9
42.5°	566.0	530.3	499.1	471.1	455.4	440.3	422.9	412.8	401.1	393.7	386.4
45°	513.0	481.4	454.8	431.8	414.5	398.7	387.4	370.6	364.0	349.1	343.0
47.5°	466.5	437.0	411.7	389.9	372.9	362.6	346.2	333.0	322.4	313.3	305.5
50°	433.4	408.9	384.4	365.0	349.7	334.9	318.0	311.4	295.0	290.4	285.9
52.5°	403.2	379.9	357.4	338.4	323.1	308.7	293.9	285.2	274.2	269.6	266.3
55°	360.9	338.4	317.0	300.1	284.8	270.0	260.8	250.1	245.0	241.4	237.4
57.5°	318.4	298.2	281.8	264.7	249.3	237.6	226.9	220.5	215.2	210.5	205.6
60°	291.5	272.1	257.3	241.4	225.6	215.9	207.8	200.1	194.0	186.8	184.8
62.5°	262.9	245.9	232.4	216.9	203.2	194.3	186.5	179.3	171.9	161.5	158.6
65°	223.6	210.3	196.0	183.3	171.0	162.3	151.1	142.9	139.9	138.8	138.3
67.5°	188.1	175.5	163.2	150.2	139.0	131.0	125.3	124.0	121.9	121.3	119.9
70°	164.4	152.6	140.4	128.1	117.4	115.9	113.8	111.8	109.2	108.2	107.2
72.5°	143.1	131.0	118.7	108.9	104.3	102.4	100.4	98.3	96.6	95.6	94.9
75°	109.7	98.5	90.4	86.8	84.2	82.7	79.6	78.1	77.1	75.5	75.0
77.5°	79.0	72.7	68.9	66.7	64.0	62.4	60.6	59.1	58.0	57.7	56.9
80°	60.2	57.2	54.6	51.6	50.5	48.5	48.0	46.5	47.0	45.4	45.4
82.5°	46.8	42.9	40.7	39.3	38.3	36.7	36.1	35.4	35.5	34.4	34.4
85°	24.0	23.0	21.9	20.9	20.9	19.4	19.9	19.4	19.4	18.4	17.9
87.5°	10.5	10.8	11.2	12.8	14.2	14.0	13.8	13.2	12.7	13.2	13.0
90°	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2	34.9	37.2	38.3
92.5°	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3	86.9	77.1	69.9
95°	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4	233.5	184.7	159.1
97.5°	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2	581.1	455.4	371.5
100°	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6	916.6	757.4	616.8
102.5°	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2	1257.6	1141.2	992.3
105°	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4	1542.7	1557.8	1519.5
107.5°	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1	1521.8	1642.6	1698.8
110°	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8	1456.7	1605.4	1700.7



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0	1379.6	1538.5	1647.7
115°	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5	1274.4	1426.5	1546.2
117.5°	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8	1188.9	1326.9	1439.1
120°	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2	1144.2	1267.4	1373.1
122.5°	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1	1107.1	1223.7	1319.2
125°	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6	1058.3	1160.5	1247.6
127.5°	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6	1010.9	1107.3	1187.7
130°	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4	979.3	1071.1	1147.7
132.5°	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1	949.6	1033.9	1105.9
135°	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9	902.6	979.3	1044.3
137.5°	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1	865.2	926.1	982.8
140°	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3	841.1	894.5	945.6
142.5°	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3	819.7	865.7	908.4
145°	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9	792.3	828.3	862.0
147.5°	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8	770.0	798.1	822.7
150°	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5	755.1	779.5	800.4
152.5°	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3	743.0	763.7	781.8
155°	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1	723.7	741.1	753.9
157.5°	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6	704.2	718.8	728.8
160°	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4	691.2	704.0	712.1
162.5°	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2	679.1	690.0	696.3
165°	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9	661.0	669.1	673.8
167.5°	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2	644.5	650.1	654.3
170°	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8	634.3	638.9	641.2
172.5°	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4	625.0	628.7	630.1
175°	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4	614.5	615.7	616.8
177.5°	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9	606.9	607.8	607.8
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1410.7	1411.5	1410.3	1411.1	1410.3	1411.5	1410.7	1415.2	1416.0	1416.8	1416.0
5°	1314.4	1308.3	1307.3	1305.7	1307.3	1308.3	1314.4	1317.0	1319.0	1323.1	1330.2
7.5°	1199.5	1198.5	1196.0	1192.4	1196.0	1198.5	1199.5	1208.2	1215.2	1223.1	1237.7
10°	1125.5	1123.0	1122.5	1118.9	1122.5	1123.0	1125.5	1136.8	1144.9	1156.2	1176.1
12.5°	1039.0	1022.5	1020.8	1011.9	1020.8	1022.5	1039.0	1053.5	1075.5	1086.3	1107.5
15°	884.6	881.6	871.3	864.7	871.3	881.6	884.6	896.9	905.0	934.6	968.8
17.5°	796.4	786.4	783.2	781.8	783.2	786.4	796.4	802.3	814.0	829.6	850.2
20°	739.6	730.5	728.9	727.9	728.9	730.5	739.6	746.8	756.0	772.8	794.3
22.5°	700.4	690.8	686.9	683.8	686.9	690.8	700.4	706.0	714.3	727.5	742.0
25°	633.5	629.9	627.9	626.8	627.9	629.9	633.5	638.6	646.7	664.6	679.9
27.5°	581.1	573.2	571.7	569.1	571.7	573.2	581.1	590.2	598.7	606.7	620.4
30°	551.3	548.7	545.2	542.1	545.2	548.7	551.3	555.9	561.5	575.3	588.6
32.5°	516.2	514.0	510.9	509.4	510.9	514.0	516.2	522.4	534.1	542.6	552.2
35°	477.3	470.1	467.1	462.5	467.1	470.1	477.3	482.4	487.0	494.1	511.5
37.5°	436.1	432.4	428.1	429.6	428.1	432.4	436.1	438.3	448.0	457.9	465.4
40°	404.3	401.7	400.7	400.2	400.7	401.7	404.3	410.9	422.7	427.2	438.5
42.5°	379.0	371.9	369.3	369.2	369.3	371.9	379.0	386.4	393.7	401.1	412.8
45°	340.5	333.8	329.2	329.8	329.2	333.8	340.5	343.0	349.1	364.0	370.6
47.5°	301.1	300.9	298.0	298.9	298.0	300.9	301.1	305.5	313.3	322.4	333.0
50°	282.3	279.2	277.2	277.7	277.2	279.2	282.3	285.9	290.4	295.0	311.4
52.5°	264.3	261.7	260.0	262.2	260.0	261.7	264.3	266.3	269.6	274.2	285.2
55°	234.8	231.7	231.2	230.7	231.2	231.7	234.8	237.4	241.4	245.0	250.1
57.5°	201.8	199.8	196.7	195.4	196.7	199.8	201.8	205.6	210.5	215.2	220.5
60°	178.1	174.1	169.0	168.4	169.0	174.1	178.1	184.8	186.8	194.0	200.1
62.5°	156.5	155.7	154.7	154.6	154.7	155.7	156.5	158.6	161.5	171.9	179.3
65°	137.3	136.8	137.3	137.8	137.3	136.8	137.3	138.3	138.8	139.9	142.9
67.5°	119.7	118.7	117.8	118.2	117.8	118.7	119.7	119.9	121.3	121.9	124.0
70°	106.2	105.7	105.2	105.2	105.2	105.7	106.2	107.2	108.2	109.2	111.8
72.5°	93.1	93.0	92.5	92.1	92.5	93.0	93.1	94.9	95.6	96.6	98.3
75°	74.5	73.5	73.5	73.5	73.5	73.5	74.5	75.0	75.5	77.1	78.1
77.5°	56.8	56.3	55.7	55.3	55.7	56.3	56.8	56.9	57.7	58.0	59.1
80°	44.9	44.4	43.9	43.9	43.9	44.4	44.9	45.4	45.4	47.0	46.5
82.5°	34.3	33.8	33.7	33.3	33.7	33.8	34.3	34.4	34.4	35.5	35.4
85°	18.4	18.9	18.4	19.4	18.4	18.9	18.4	17.9	18.4	19.4	19.4
87.5°	13.0	12.6	13.0	12.6	13.0	12.6	13.0	13.0	13.2	12.7	13.2
90°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.2	34.9	37.2
92.5°	69.0	65.3	66.2	64.4	66.2	65.3	69.0	69.9	77.1	86.9	101.3
95°	144.0	134.8	131.3	132.4	131.3	134.8	144.0	159.1	184.7	233.5	304.4
97.5°	316.0	287.4	270.4	260.7	270.4	287.4	316.0	371.5	455.4	581.1	710.2
100°	520.4	470.5	436.8	415.9	436.8	470.5	520.4	616.8	757.4	916.6	1060.6
102.5°	887.5	802.3	760.2	731.9	760.2	802.3	887.5	992.3	1141.2	1257.6	1290.2
105°	1447.4	1375.4	1325.5	1309.2	1325.5	1375.4	1447.4	1519.5	1557.8	1542.7	1411.4
107.5°	1707.9	1703.9	1693.9	1672.3	1693.9	1703.9	1707.9	1698.8	1642.6	1521.8	1324.1
110°	1750.6	1772.7	1783.2	1782.0	1783.2	1772.7	1750.6	1700.7	1605.4	1456.7	1248.8



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1717.2	1754.1	1773.9	1780.1	1773.9	1754.1	1717.2	1647.7	1538.5	1379.6	1180.0
115°	1628.7	1682.1	1712.3	1722.8	1712.3	1682.1	1628.7	1546.2	1426.5	1274.4	1095.5
117.5°	1523.2	1579.6	1611.5	1620.3	1611.5	1579.6	1523.2	1439.1	1326.9	1188.9	1031.8
120°	1454.4	1509.0	1542.7	1554.3	1542.7	1509.0	1454.4	1373.1	1267.4	1144.2	1000.2
122.5°	1392.1	1445.8	1475.8	1485.5	1475.8	1445.8	1392.1	1319.2	1223.7	1107.1	975.1
125°	1315.0	1359.2	1388.2	1397.5	1388.2	1359.2	1315.0	1247.6	1160.5	1058.3	938.6
127.5°	1246.5	1287.8	1312.9	1320.4	1312.9	1287.8	1246.5	1187.7	1107.3	1010.9	902.6
130°	1204.7	1244.2	1267.4	1276.7	1267.4	1244.2	1204.7	1147.7	1071.1	979.3	879.4
132.5°	1161.9	1201.4	1222.8	1231.1	1222.8	1201.4	1161.9	1105.9	1033.9	949.6	857.1
135°	1094.3	1132.6	1153.5	1158.2	1153.5	1132.6	1094.3	1044.3	979.3	902.6	825.9
137.5°	1028.3	1061.3	1079.7	1086.6	1079.7	1061.3	1028.3	982.8	926.1	865.2	801.1
140°	982.8	1013.0	1030.4	1037.4	1030.4	1013.0	982.8	945.6	894.5	841.1	785.3
142.5°	943.7	971.2	986.7	988.1	986.7	971.2	943.7	908.4	865.7	819.7	772.3
145°	889.8	909.6	921.2	924.7	921.2	909.6	889.8	862.0	828.3	792.3	753.9
147.5°	845.7	861.5	869.4	871.5	869.4	861.5	845.7	822.7	798.1	770.0	739.8
150°	817.8	831.8	838.7	839.9	838.7	831.8	817.8	800.4	779.5	755.1	729.5
152.5°	795.5	807.6	812.7	812.9	812.7	807.6	795.5	781.8	763.7	743.0	719.3
155°	766.7	774.8	779.5	777.2	779.5	774.8	766.7	753.9	741.1	723.7	705.1
157.5°	737.9	744.6	746.7	746.7	746.7	744.6	737.9	728.8	718.8	704.2	688.6
160°	720.2	726.0	727.2	727.2	727.2	726.0	720.2	712.1	704.0	691.2	678.4
162.5°	704.4	708.4	709.5	708.6	709.5	708.4	704.4	696.3	690.0	679.1	668.2
165°	678.4	683.1	683.1	681.9	683.1	683.1	678.4	673.8	669.1	661.0	652.9
167.5°	656.3	658.9	658.7	657.3	658.7	658.9	656.3	654.3	650.1	644.5	638.2
170°	642.4	645.9	644.7	642.4	644.7	645.9	642.4	641.2	638.9	634.3	630.8
172.5°	631.3	632.9	631.7	630.3	631.7	632.9	631.3	630.1	628.7	625.0	622.4
175°	616.8	618.0	616.8	614.5	616.8	618.0	616.8	616.8	615.7	614.5	613.4
177.5°	607.8	607.8	606.9	605.0	606.9	607.8	607.8	607.8	607.8	606.9	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1412.7	1418.4	1427.0	1431.9	1440.1	1445.4	1448.3	1453.6	1456.4	1466.6	1477.3
5°	1333.8	1342.0	1356.3	1369.5	1383.8	1398.6	1409.4	1421.6	1432.8	1452.2	1472.7
7.5°	1243.4	1254.7	1276.8	1298.0	1322.9	1343.8	1362.3	1383.2	1401.9	1429.7	1458.7
10°	1175.6	1195.5	1224.6	1244.5	1277.2	1298.1	1327.2	1350.1	1376.2	1412.9	1445.6
12.5°	1117.2	1141.2	1164.5	1192.2	1221.6	1256.4	1288.4	1317.9	1348.8	1386.8	1425.2
15°	1011.2	1045.9	1082.2	1110.2	1150.1	1186.8	1224.1	1263.9	1301.7	1347.1	1397.1
17.5°	874.8	915.0	976.0	1024.1	1070.8	1107.7	1153.8	1202.0	1246.5	1301.3	1357.0
20°	813.2	842.8	884.1	948.9	1019.4	1058.7	1105.6	1158.7	1209.8	1269.5	1329.2
22.5°	763.7	790.1	823.3	873.8	952.4	1006.0	1055.0	1108.9	1168.1	1229.1	1295.3
25°	693.2	711.6	746.3	787.1	841.2	929.5	983.1	1037.2	1101.6	1166.9	1242.4
27.5°	640.2	656.7	679.3	718.3	758.5	821.9	907.2	966.2	1030.3	1103.8	1182.2
30°	599.8	619.2	644.2	671.8	715.7	765.2	850.4	918.8	982.1	1057.7	1141.4
32.5°	570.4	585.7	607.0	635.0	671.6	719.0	787.1	870.2	931.9	1011.5	1098.9
35°	522.2	540.1	557.4	584.0	613.6	657.0	708.5	797.3	858.6	937.2	1025.0
37.5°	482.5	493.4	512.6	533.6	564.9	597.2	641.9	721.6	787.8	865.0	954.9
40°	452.3	466.0	480.3	503.8	529.3	560.5	604.4	663.6	739.6	815.2	903.0
42.5°	422.9	440.3	455.4	471.1	499.1	530.3	566.0	616.2	693.9	765.4	850.7
45°	387.4	398.7	414.5	431.8	454.8	481.4	513.0	556.9	631.4	693.2	773.3
47.5°	346.2	362.6	372.9	389.9	411.7	437.0	466.5	504.4	564.8	622.7	697.0
50°	318.0	334.9	349.7	365.0	384.4	408.9	433.4	470.1	518.6	579.4	648.8
52.5°	293.9	308.7	323.1	338.4	357.4	379.9	403.2	435.4	477.0	532.8	600.2
55°	260.8	270.0	284.8	300.1	317.0	338.4	360.9	387.9	423.7	470.6	525.3
57.5°	226.9	237.6	249.3	264.7	281.8	298.2	318.4	342.9	371.1	413.6	460.3
60°	207.8	215.9	225.6	241.4	257.3	272.1	291.5	311.9	338.4	375.2	415.0
62.5°	186.5	194.3	203.2	216.9	232.4	245.9	262.9	284.5	307.0	340.5	375.4
65°	151.1	162.3	171.0	183.3	196.0	210.3	223.6	240.9	260.8	287.4	318.5
67.5°	125.3	131.0	139.0	150.2	163.2	175.5	188.1	201.6	218.9	239.4	264.1
70°	113.8	115.9	117.4	128.1	140.4	152.6	164.4	177.1	191.9	208.8	230.2
72.5°	100.4	102.4	104.3	108.9	118.7	131.0	143.1	152.6	166.6	180.6	198.0
75°	79.6	82.7	84.2	86.8	90.4	98.5	109.7	118.9	127.1	137.8	151.6
77.5°	60.6	62.4	64.0	66.7	68.9	72.7	79.0	87.3	94.9	101.2	110.7
80°	48.0	48.5	50.5	51.6	54.6	57.2	60.2	66.9	74.5	77.1	83.7
82.5°	36.1	36.7	38.3	39.3	40.7	42.9	46.8	48.5	54.5	57.9	62.1
85°	19.9	19.4	20.9	20.9	21.9	23.0	24.0	26.5	28.1	32.2	33.2
87.5°	13.8	14.0	14.2	12.8	11.2	10.8	10.5	10.5	10.8	11.1	12.1
90°	38.3	39.5	38.3	31.4	23.2	17.4	13.9	11.6	9.3	4.6	1.2
92.5°	127.6	151.0	148.9	115.9	79.0	52.7	41.8	33.9	28.8	20.4	14.2
95°	398.5	455.4	403.1	268.3	167.3	113.8	86.0	67.4	56.9	45.3	40.7
97.5°	815.5	777.4	585.5	361.5	220.7	153.6	122.0	100.6	84.8	72.5	66.2
100°	1085.0	917.7	631.9	381.0	239.3	177.7	145.2	122.0	103.4	92.9	89.4
102.5°	1185.4	922.4	614.3	382.0	256.0	199.1	166.6	142.4	123.8	113.4	110.8
105°	1169.8	860.8	579.7	388.0	284.6	230.0	197.5	171.9	154.5	146.4	141.7
107.5°	1067.8	794.8	562.5	404.0	313.9	260.9	228.2	202.8	186.8	178.9	175.2
110°	1003.7	763.2	558.8	417.0	333.4	282.3	248.6	224.2	209.1	202.1	197.5



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	959.1	742.8	559.7	431.0	352.0	302.7	268.1	244.6	230.5	222.6	217.9
115°	903.8	720.2	564.6	451.9	381.0	331.1	299.7	276.5	262.5	255.6	249.8
117.5°	868.9	709.3	572.9	474.2	407.7	361.5	329.0	306.7	294.4	287.4	282.8
120°	850.3	702.8	578.5	489.1	426.3	381.0	348.5	325.3	314.8	307.8	303.2
122.5°	834.5	699.1	585.0	502.1	444.0	401.5	368.0	344.8	333.4	326.4	322.7
125°	812.0	692.4	594.8	522.8	470.5	428.7	396.1	372.9	359.0	352.0	348.5
127.5°	791.1	688.4	604.8	542.0	495.1	454.4	421.0	398.7	383.4	373.6	368.9
130°	777.2	686.5	612.2	554.1	510.0	469.3	436.8	413.6	397.3	385.7	381.0
132.5°	766.0	685.6	619.6	566.2	523.0	484.2	451.7	427.5	410.3	397.8	392.2
135°	750.4	684.2	628.5	582.0	541.3	504.2	471.6	444.9	427.5	413.6	408.9
137.5°	739.5	684.0	636.4	594.1	556.2	519.5	489.3	462.8	444.2	430.3	424.7
140°	733.0	683.1	640.1	600.6	564.6	529.7	499.5	474.0	455.4	441.4	436.8
142.5°	726.5	683.1	642.9	606.2	571.1	537.2	508.8	484.2	465.6	452.6	448.9
145°	717.9	680.7	645.9	613.4	580.8	549.5	523.9	500.7	483.3	471.6	467.0
147.5°	709.1	676.6	646.8	617.3	588.7	559.2	536.5	517.2	501.1	490.0	486.5
150°	701.6	673.8	645.9	619.2	592.5	565.7	544.8	527.4	512.3	503.0	499.5
152.5°	695.1	669.1	644.0	620.1	596.2	572.2	553.2	536.7	523.4	514.2	512.5
155°	683.1	661.0	641.2	621.5	601.7	582.0	564.6	551.8	539.0	532.0	530.9
157.5°	671.7	652.6	635.9	621.5	605.7	589.0	574.3	564.1	553.0	547.4	546.2
160°	663.3	647.1	633.1	621.5	607.6	593.6	580.8	571.5	562.2	557.6	556.4
162.5°	655.9	642.4	630.3	620.6	608.5	596.4	586.4	578.0	570.6	566.0	566.7
165°	643.6	633.1	625.0	618.0	609.9	599.4	592.5	586.6	579.7	577.4	578.5
167.5°	631.5	625.0	619.6	616.4	609.6	602.0	597.6	593.4	589.0	586.9	588.3
170°	625.0	620.3	616.8	614.5	608.7	602.9	599.4	597.1	593.6	592.5	594.8
172.5°	618.5	614.8	613.1	611.7	607.8	603.8	601.3	599.9	596.4	597.1	598.5
175°	609.9	608.7	607.6	608.7	606.4	604.1	602.9	602.9	600.6	601.7	602.9
177.5°	605.0	604.1	605.0	606.9	605.0	604.1	604.1	604.1	602.2	603.1	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1477.7	1478.9	1487.1	1490.7	1498.1	1500.9	1504.2	1503.4	1503.4	1505.0	1516.5
5°	1480.8	1491.0	1506.3	1521.1	1535.4	1547.7	1555.9	1564.0	1567.1	1581.9	1595.2
7.5°	1475.5	1494.3	1519.6	1542.2	1569.2	1590.4	1607.9	1623.8	1634.6	1656.1	1678.2
10°	1468.6	1495.1	1523.7	1552.8	1590.1	1618.1	1646.7	1668.7	1675.8	1708.0	1726.4
12.5°	1454.7	1490.2	1526.6	1564.2	1600.7	1639.4	1670.8	1692.8	1717.9	1746.8	1780.7
15°	1433.9	1474.7	1522.2	1570.7	1622.7	1669.7	1703.4	1741.7	1769.2	1800.9	1830.5
17.5°	1403.9	1456.5	1516.9	1573.0	1633.2	1683.7	1730.0	1766.8	1786.2	1804.2	1808.6
20°	1380.3	1436.9	1507.9	1574.2	1634.5	1692.7	1738.6	1769.2	1774.3	1774.8	1747.8
22.5°	1354.5	1418.5	1492.8	1560.8	1632.8	1697.6	1733.3	1746.4	1726.1	1691.5	1639.2
25°	1307.3	1381.3	1467.6	1545.1	1623.8	1685.0	1697.3	1674.3	1603.3	1528.8	1434.4
27.5°	1256.0	1339.2	1431.7	1518.0	1601.7	1639.7	1613.2	1530.4	1402.6	1291.5	1156.9
30°	1218.5	1311.9	1402.7	1499.2	1576.8	1593.1	1532.4	1410.4	1261.3	1093.9	959.7
32.5°	1175.6	1273.5	1373.3	1473.1	1538.0	1522.1	1421.7	1271.5	1096.8	932.2	805.3
35°	1114.3	1215.4	1323.1	1423.1	1464.5	1395.6	1245.5	1050.0	871.3	717.7	630.4
37.5°	1043.6	1153.6	1265.6	1357.5	1354.5	1239.7	1035.3	833.5	683.3	592.4	530.3
40°	993.3	1104.6	1225.6	1303.2	1270.0	1120.4	898.9	708.5	598.8	526.3	480.8
42.5°	945.2	1056.8	1177.0	1238.7	1181.0	997.1	776.4	627.2	536.7	480.1	443.3
45°	863.2	981.1	1092.4	1126.6	1023.5	820.8	627.9	519.6	459.4	417.6	392.0
47.5°	783.0	899.0	1000.6	1001.2	861.7	665.6	529.6	449.7	398.3	365.9	347.3
50°	734.0	844.3	929.5	916.3	758.0	592.1	473.7	404.8	361.9	336.9	317.5
52.5°	678.9	785.9	859.7	821.9	670.2	521.1	423.5	365.6	330.1	308.3	291.0
55°	598.8	693.7	745.8	688.6	546.7	433.4	357.8	312.4	285.9	267.5	252.7
57.5°	520.0	598.4	631.1	564.6	450.3	359.4	302.7	268.6	242.3	229.1	221.4
60°	470.6	537.5	560.5	487.0	391.5	314.4	268.0	236.3	216.9	208.3	200.6
62.5°	422.0	476.7	486.2	418.8	341.3	275.2	235.3	208.6	195.7	187.4	180.2
65°	350.2	389.5	384.9	330.8	270.0	218.5	189.4	173.0	163.3	151.6	138.8
67.5°	288.3	312.3	297.8	257.3	206.1	169.8	150.8	138.4	126.4	115.3	112.3
70°	249.1	262.9	247.6	210.3	169.0	142.4	127.1	112.3	105.2	102.6	98.0
72.5°	211.5	216.3	199.8	167.8	137.5	117.9	103.0	94.7	90.9	88.7	85.8
75°	158.8	155.2	140.9	115.9	95.5	82.2	77.6	74.5	72.0	69.9	68.4
77.5°	111.5	106.3	93.5	77.2	66.5	60.1	57.4	55.7	54.5	53.5	52.0
80°	83.7	80.1	67.4	55.1	50.5	47.5	45.9	43.9	43.9	42.9	41.3
82.5°	61.3	57.3	46.1	40.4	37.9	36.0	34.9	33.7	33.3	33.5	32.4
85°	32.2	26.0	23.0	21.9	20.4	19.4	19.9	18.9	18.9	18.9	18.4
87.5°	10.7	9.6	9.7	9.7	10.8	12.0	13.2	14.6	15.2	14.6	14.8
90°	4.6	9.3	11.6	13.9	17.4	23.2	31.4	38.3	39.5	38.3	37.2
92.5°	20.4	28.8	33.9	41.8	52.7	79.0	115.9	148.9	151.0	127.6	101.3
95°	45.3	56.9	67.4	86.0	113.8	167.3	268.3	403.1	455.4	398.5	304.4
97.5°	72.5	84.8	100.6	122.0	153.6	220.7	361.5	585.5	777.4	815.5	710.2
100°	92.9	103.4	122.0	145.2	177.7	239.3	381.0	631.9	917.7	1085.0	1060.6
102.5°	113.4	123.8	142.4	166.6	199.1	256.0	382.0	614.3	922.4	1185.4	1290.2
105°	146.4	154.5	171.9	197.5	230.0	284.6	388.0	579.7	860.8	1169.8	1411.4
107.5°	178.9	186.8	202.8	228.2	260.9	313.9	404.0	562.5	794.8	1067.8	1324.1
110°	202.1	209.1	224.2	248.6	282.3	333.4	417.0	558.8	763.2	1003.7	1248.8



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CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	222.6	230.5	244.6	268.1	302.7	352.0	431.0	559.7	742.8	959.1	1180.0
115°	255.6	262.5	276.5	299.7	331.1	381.0	451.9	564.6	720.2	903.8	1095.5
117.5°	287.4	294.4	306.7	329.0	361.5	407.7	474.2	572.9	709.3	868.9	1031.8
120°	307.8	314.8	325.3	348.5	381.0	426.3	489.1	578.5	702.8	850.3	1000.2
122.5°	326.4	333.4	344.8	368.0	401.5	444.0	502.1	585.0	699.1	834.5	975.1
125°	352.0	359.0	372.9	396.1	428.7	470.5	522.8	594.8	692.4	812.0	938.6
127.5°	373.6	383.4	398.7	421.0	454.4	495.1	542.0	604.8	688.4	791.1	902.6
130°	385.7	397.3	413.6	436.8	469.3	510.0	554.1	612.2	686.5	777.2	879.4
132.5°	397.8	410.3	427.5	451.7	484.2	523.0	566.2	619.6	685.6	766.0	857.1
135°	413.6	427.5	444.9	471.6	504.2	541.3	582.0	628.5	684.2	750.4	825.9
137.5°	430.3	444.2	462.8	489.3	519.5	556.2	594.1	636.4	684.0	739.5	801.1
140°	441.4	455.4	474.0	499.5	529.7	564.6	600.6	640.1	683.1	733.0	785.3
142.5°	452.6	465.6	484.2	508.8	537.2	571.1	606.2	642.9	683.1	726.5	772.3
145°	471.6	483.3	500.7	523.9	549.5	580.8	613.4	645.9	680.7	717.9	753.9
147.5°	490.0	501.1	517.2	536.5	559.2	588.7	617.3	646.8	676.6	709.1	739.8
150°	503.0	512.3	527.4	544.8	565.7	592.5	619.2	645.9	673.8	701.6	729.5
152.5°	514.2	523.4	536.7	553.2	572.2	596.2	620.1	644.0	669.1	695.1	719.3
155°	532.0	539.0	551.8	564.6	582.0	601.7	621.5	641.2	661.0	683.1	705.1
157.5°	547.4	553.0	564.1	574.3	589.0	605.7	621.5	635.9	652.6	671.7	688.6
160°	557.6	562.2	571.5	580.8	593.6	607.6	621.5	633.1	647.1	663.3	678.4
162.5°	566.0	570.6	578.0	586.4	596.4	608.5	620.6	630.3	642.4	655.9	668.2
165°	577.4	579.7	586.6	592.5	599.4	609.9	618.0	625.0	633.1	643.6	652.9
167.5°	586.9	589.0	593.4	597.6	602.0	609.6	616.4	619.6	625.0	631.5	638.2
170°	592.5	593.6	597.1	599.4	602.9	608.7	614.5	616.8	620.3	625.0	630.8
172.5°	597.1	596.4	599.9	601.3	603.8	607.8	611.7	613.1	614.8	618.5	622.4
175°	601.7	600.6	602.9	602.9	604.1	606.4	608.7	607.6	608.7	609.9	613.4
177.5°	603.1	602.2	604.1	604.1	604.1	605.0	606.9	605.0	604.1	605.0	606.9
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P331701

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1520.5	1525.8	1528.3	1528.3	1531.2	1529.9	1528.7
5°	1607.9	1617.6	1619.7	1628.9	1635.5	1633.4	1634.5
7.5°	1694.8	1710.4	1725.8	1732.9	1734.0	1738.1	1739.6
10°	1748.3	1761.1	1785.1	1781.5	1799.3	1809.6	1792.7
12.5°	1799.8	1817.0	1833.6	1838.2	1848.4	1851.6	1845.0
15°	1846.3	1855.5	1856.5	1854.0	1857.0	1854.5	1844.8
17.5°	1802.8	1787.9	1757.7	1743.4	1732.1	1715.3	1708.6
20°	1730.9	1687.0	1636.0	1615.6	1591.6	1544.6	1555.9
22.5°	1575.8	1525.7	1474.7	1415.1	1386.6	1342.1	1339.4
25°	1334.3	1248.1	1153.1	1086.8	1048.0	1003.6	984.2
27.5°	1037.4	928.8	851.0	811.6	775.8	740.6	739.1
30°	842.2	760.6	700.3	666.7	644.7	629.9	633.0
32.5°	709.9	654.0	613.4	585.4	569.2	558.0	557.8
35°	580.4	542.1	516.1	504.3	492.6	484.4	484.9
37.5°	496.7	473.7	459.2	446.2	438.9	434.9	432.7
40°	453.8	434.9	423.7	416.0	409.9	404.3	403.3
42.5°	419.9	404.3	393.0	387.0	381.3	377.3	376.3
45°	372.6	359.9	349.7	343.0	340.5	336.9	336.9
47.5°	331.5	318.9	311.0	306.8	302.4	300.0	299.9
50°	303.7	294.0	286.9	284.3	280.7	279.2	278.7
52.5°	278.8	271.6	266.5	264.7	263.2	261.2	261.6
55°	245.0	240.9	238.9	237.4	234.8	231.7	233.8
57.5°	216.5	213.1	207.6	202.8	200.4	198.3	199.1
60°	196.5	189.4	182.2	176.6	175.1	170.5	170.5
62.5°	171.2	161.2	152.4	149.3	147.7	145.6	145.2
65°	131.7	127.6	125.6	123.5	122.5	122.5	121.5
67.5°	109.1	107.5	105.3	104.7	103.7	103.4	103.1
70°	96.5	94.4	93.4	92.9	91.9	92.4	90.9
72.5°	84.2	82.6	82.4	81.1	80.4	80.5	79.4
75°	66.4	66.4	65.8	65.3	64.3	63.8	64.3
77.5°	51.0	51.1	50.2	50.1	50.0	50.1	49.6
80°	40.8	41.3	40.8	40.3	39.8	40.3	39.8
82.5°	32.3	31.5	31.4	31.3	31.2	30.9	30.8
85°	18.4	18.9	18.4	17.9	17.9	17.9	18.4
87.5°	13.9	14.4	14.6	14.6	14.6	14.6	14.2
90°	34.9	37.2	38.3	38.3	38.3	38.3	38.3
92.5°	86.9	77.1	69.9	69.0	65.3	66.2	64.4
95°	233.5	184.7	159.1	144.0	134.8	131.3	132.4
97.5°	581.1	455.4	371.5	316.0	287.4	270.4	260.7
100°	916.6	757.4	616.8	520.4	470.5	436.8	415.9
102.5°	1257.6	1141.2	992.3	887.5	802.3	760.2	731.9
105°	1542.7	1557.8	1519.5	1447.4	1375.4	1325.5	1309.2
107.5°	1521.8	1642.6	1698.8	1707.9	1703.9	1693.9	1672.3
110°	1456.7	1605.4	1700.7	1750.6	1772.7	1783.2	1782.0



TEST NUMBER: P331701

CATALOG NUMBER: SA2XXRDIP-C675D1080U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1379.6	1538.5	1647.7	1717.2	1754.1	1773.9	1780.1
115°	1274.4	1426.5	1546.2	1628.7	1682.1	1712.3	1722.8
117.5°	1188.9	1326.9	1439.1	1523.2	1579.6	1611.5	1620.3
120°	1144.2	1267.4	1373.1	1454.4	1509.0	1542.7	1554.3
122.5°	1107.1	1223.7	1319.2	1392.1	1445.8	1475.8	1485.5
125°	1058.3	1160.5	1247.6	1315.0	1359.2	1388.2	1397.5
127.5°	1010.9	1107.3	1187.7	1246.5	1287.8	1312.9	1320.4
130°	979.3	1071.1	1147.7	1204.7	1244.2	1267.4	1276.7
132.5°	949.6	1033.9	1105.9	1161.9	1201.4	1222.8	1231.1
135°	902.6	979.3	1044.3	1094.3	1132.6	1153.5	1158.2
137.5°	865.2	926.1	982.8	1028.3	1061.3	1079.7	1086.6
140°	841.1	894.5	945.6	982.8	1013.0	1030.4	1037.4
142.5°	819.7	865.7	908.4	943.7	971.2	986.7	988.1
145°	792.3	828.3	862.0	889.8	909.6	921.2	924.7
147.5°	770.0	798.1	822.7	845.7	861.5	869.4	871.5
150°	755.1	779.5	800.4	817.8	831.8	838.7	839.9
152.5°	743.0	763.7	781.8	795.5	807.6	812.7	812.9
155°	723.7	741.1	753.9	766.7	774.8	779.5	777.2
157.5°	704.2	718.8	728.8	737.9	744.6	746.7	746.7
160°	691.2	704.0	712.1	720.2	726.0	727.2	727.2
162.5°	679.1	690.0	696.3	704.4	708.4	709.5	708.6
165°	661.0	669.1	673.8	678.4	683.1	683.1	681.9
167.5°	644.5	650.1	654.3	656.3	658.9	658.7	657.3
170°	634.3	638.9	641.2	642.4	645.9	644.7	642.4
172.5°	625.0	628.7	630.1	631.3	632.9	631.7	630.3
175°	614.5	615.7	616.8	616.8	618.0	616.8	614.5
177.5°	606.9	607.8	607.8	607.8	607.8	606.9	605.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1

(END OF REPORT)