

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: P332939-830

Luminaire Tested: **SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332939-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

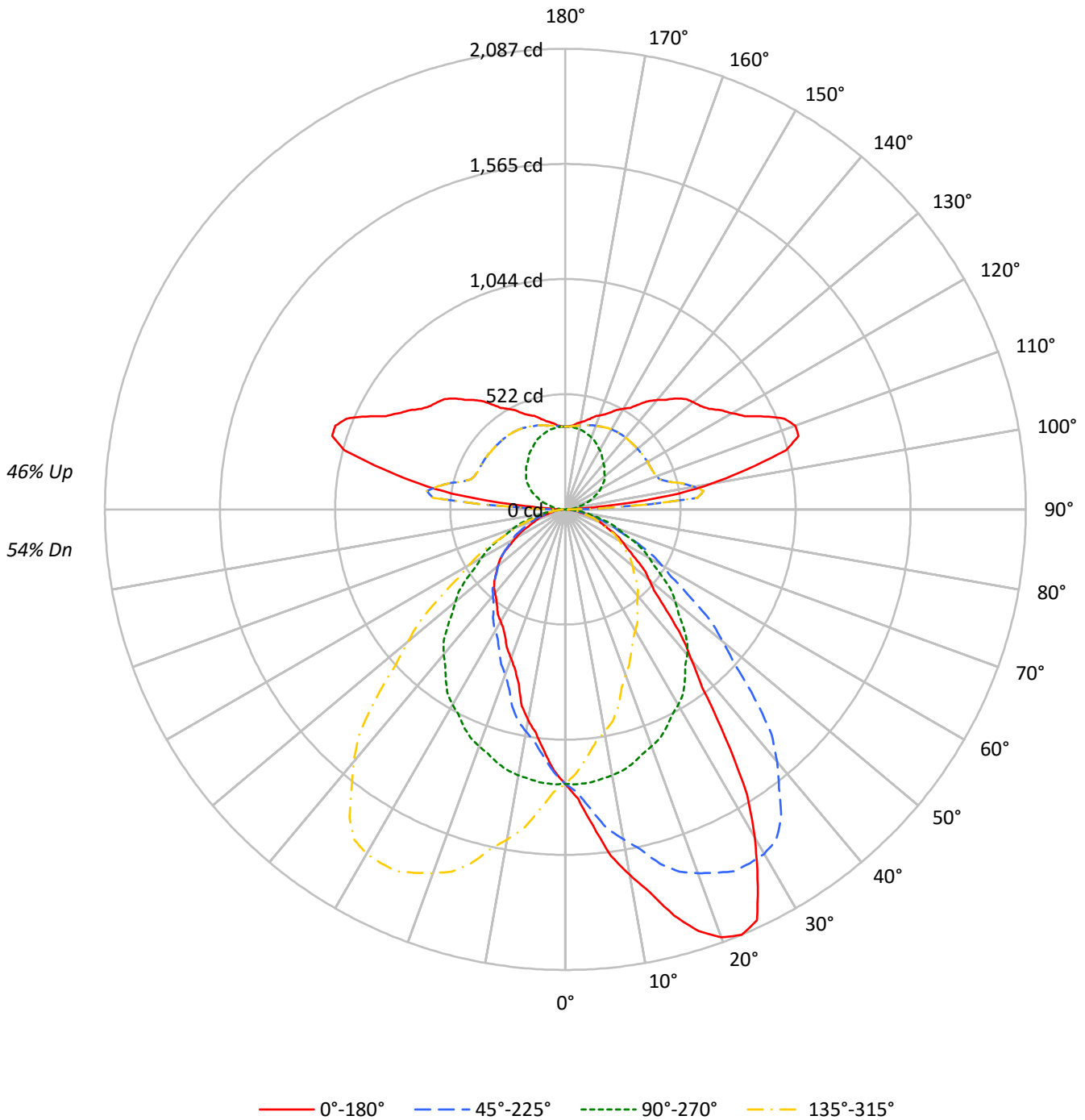
Lumens per Lamp: N/A
Luminaire Lumens: 5875.3 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.9
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



TEST NUMBER: P332939-830
CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	47	46	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	42	48	42	38	41	37	33	35	31	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	48	40	34	55	45	38	33	39	34	29	34	29	26	29	26	23	20
8	56	43	36	31	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10044	10044	10044	10044
5°	11651	10075	8904	10075
10°	13782	10030	7947	10030
15°	15921	9937	6829	9937
20°	17725	9810	6176	9810
25°	18299	9685	5734	9685
30°	16018	9533	5466	9533
35°	12470	9307	5306	9307
40°	9351	9049	5220	9049
45°	7383	8636	5174	8636
50°	6232	8160	5024	8160
55°	5433	7633	4756	7633
60°	4887	7090	4209	7090
65°	4309	6502	3620	6502
70°	3880	5894	3267	5894
75°	3250	5221	2785	5221
80°	2752	4454	2613	4454
85°	2325	3483	2325	3483



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.1
10°-20°	363.6	6.2
20°-30°	568.8	9.7
30°-40°	632.3	10.8
40°-50°	561.0	9.5
50°-60°	437.1	7.4
60°-70°	286.2	4.9
70°-80°	140.7	2.4
80°-90°	36.8	0.6
90°-100°	270.9	4.6
100°-110°	563.9	9.6
110°-120°	505.1	8.6
120°-130°	424.9	7.2
130°-140°	354.3	6.0
140°-150°	270.6	4.6
150°-160°	190.2	3.2
160°-170°	111.9	1.9
170°-180°	36.4	0.6
0°-30°	1052.9	17.9
0°-40°	1685.2	28.7
0°-60°	2683.3	45.7
0°-90°	3147.1	53.6
90°-120°	1340.0	22.8
90°-150°	2389.7	40.7
90°-180°	2728.0	46.4
0°-180°	5875.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1244	1244	1244	1244	1244	
5°	1438	1243	1099	1243	1438	145
15°	1905	1189	817	1189	1905	542
25°	2054	1087	644	1087	2054	911
35°	1265	944	538	944	1265	793
45°	647	756	453	756	647	512
55°	386	542	338	542	386	351
65°	226	340	190	340	226	227
75°	104	167	89	167	104	115
85°	25	38	25	38	25	29
90°	16	1	16	1	16	14
95°	180	24	180	24	180	279
105°	1037	86	1037	86	1037	1025
115°	996	152	996	152	996	988
125°	794	212	794	212	794	722
135°	710	251	710	251	710	548
145°	580	290	580	290	580	368
155°	486	329	486	329	486	227
165°	424	359	424	359	424	121
175°	382	374	382	374	382	37
180°	375	375	375	375	375	



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1312.3	1316.0	1312.3	1311.9	1308.0	1306.7	1305.1	1300.0	1290.2	1284.7	1285.9
5°	1437.7	1450.2	1443.2	1442.2	1431.2	1420.1	1413.1	1397.0	1380.0	1368.5	1359.0
7.5°	1582.6	1589.9	1585.5	1578.4	1560.6	1550.5	1534.2	1513.1	1482.5	1459.2	1437.8
10°	1681.3	1687.3	1685.3	1672.3	1659.3	1632.7	1617.6	1588.1	1549.4	1518.9	1490.3
12.5°	1778.3	1784.8	1767.1	1767.7	1743.0	1722.1	1698.3	1661.0	1616.5	1577.1	1541.2
15°	1904.9	1896.9	1896.9	1886.8	1859.3	1830.1	1805.6	1766.5	1710.3	1663.2	1613.6
17.5°	2003.9	2006.7	2002.6	1979.0	1957.3	1927.2	1882.2	1836.5	1784.4	1721.2	1670.5
20°	2063.2	2063.2	2058.8	2042.7	2014.7	1982.5	1933.9	1884.3	1818.2	1754.4	1697.3
22.5°	2087.4	2089.0	2083.6	2070.4	2045.1	2013.8	1972.5	1922.0	1853.8	1782.2	1711.4
25°	2054.3	2063.8	2064.7	2061.2	2053.7	2034.7	1999.1	1947.5	1886.3	1808.6	1732.4
27.5°	1886.0	1898.0	1908.6	1925.9	1949.0	1961.0	1962.6	1936.4	1883.0	1808.2	1731.5
30°	1718.3	1728.4	1761.0	1803.6	1836.7	1866.8	1892.8	1899.9	1869.8	1802.6	1721.9
32.5°	1532.3	1546.0	1578.6	1624.4	1679.5	1730.4	1788.9	1818.8	1818.1	1777.7	1703.1
35°	1265.3	1275.3	1305.3	1353.5	1419.7	1495.3	1588.1	1660.2	1709.4	1705.8	1660.2
37.5°	1020.4	1031.7	1062.2	1102.0	1166.2	1259.9	1349.6	1449.1	1539.9	1590.9	1575.7
40°	887.3	887.8	917.4	958.5	1018.6	1100.3	1198.1	1308.3	1409.6	1492.3	1508.4
42.5°	782.2	782.3	801.8	846.1	889.5	966.4	1059.7	1169.2	1287.7	1383.3	1425.8
45°	646.7	651.2	667.2	693.8	727.8	793.1	867.7	969.5	1102.3	1215.6	1286.3
47.5°	547.6	554.2	564.4	586.1	613.2	656.7	718.4	809.8	917.9	1042.5	1143.1
50°	496.2	497.3	510.3	522.4	545.9	580.5	634.6	710.8	810.0	929.9	1041.7
52.5°	452.1	451.9	459.8	475.0	494.2	521.1	564.9	634.2	722.3	829.6	945.0
55°	386.0	388.5	394.5	406.5	421.0	440.2	474.7	526.9	596.1	687.8	792.5
57.5°	335.6	337.0	341.7	346.8	360.1	374.0	399.9	436.1	494.5	569.6	667.2
60°	302.7	303.3	304.8	312.3	322.8	335.8	353.4	384.0	433.1	501.8	579.0
62.5°	270.7	271.5	273.9	279.4	287.6	296.5	314.9	339.5	380.1	438.8	508.4
65°	225.6	226.1	229.6	231.6	238.1	246.1	259.7	276.2	304.3	353.4	406.0
67.5°	188.5	188.5	188.7	191.4	195.9	201.2	209.3	222.5	243.7	273.9	320.3
70°	164.4	164.4	165.4	166.9	169.5	173.9	178.4	188.5	204.1	228.6	264.2
72.5°	141.9	142.3	143.4	143.6	145.0	148.6	152.0	158.4	169.9	188.5	217.3
75°	104.2	105.8	108.3	110.3	112.8	112.3	115.8	119.8	123.3	134.3	150.9
77.5°	77.6	76.8	77.1	78.8	79.1	79.6	82.1	85.2	87.8	93.0	99.0
80°	59.2	59.2	60.7	61.2	60.7	61.2	63.6	65.1	66.2	68.1	73.7
82.5°	44.7	45.5	45.1	45.5	45.8	46.3	48.4	48.7	49.8	50.5	52.9
85°	25.1	25.5	26.1	25.1	25.1	25.1	26.1	26.6	27.6	27.1	28.1
87.5°	11.9	11.5	12.1	11.9	12.2	11.8	12.1	12.7	11.7	12.3	12.0
90°	15.5	15.5	16.2	15.5	14.7	14.7	14.0	13.3	12.5	13.3	11.8
92.5°	56.7	56.7	59.3	63.2	71.9	86.7	109.0	144.8	194.7	233.8	204.6
95°	179.8	189.5	202.6	225.6	261.6	333.1	431.9	546.1	617.6	600.7	453.3
97.5°	480.7	496.0	518.1	562.5	615.4	692.3	764.4	806.8	775.9	632.6	424.2
100°	675.8	681.7	703.8	748.8	812.9	867.4	903.5	888.8	781.2	592.6	384.7
102.5°	845.6	850.4	873.6	906.3	945.6	968.3	957.8	884.7	737.0	542.4	358.2
105°	1037.0	1041.4	1051.7	1057.6	1056.1	1025.9	952.9	825.5	656.7	483.4	335.4
107.5°	1108.0	1106.1	1098.7	1081.9	1045.5	979.8	877.0	741.3	591.8	450.4	331.2
110°	1109.2	1102.6	1089.3	1058.3	1006.0	924.9	818.0	690.6	559.4	439.2	332.3



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1074.4	1063.7	1045.1	1007.6	948.2	867.1	766.2	653.5	541.1	433.9	335.9
115°	995.7	989.8	966.2	922.0	863.7	793.0	706.8	616.1	524.0	431.1	342.7
117.5°	916.0	911.3	887.5	850.4	800.7	740.6	672.9	597.9	516.3	430.4	350.0
120°	871.1	863.0	843.9	811.4	769.4	717.1	658.2	589.6	512.2	430.4	355.2
122.5°	835.8	827.6	811.4	783.7	748.2	702.4	648.7	582.5	507.5	429.8	360.5
125°	794.5	790.0	776.1	754.7	725.2	684.7	633.9	570.4	499.6	429.0	368.5
127.5°	770.3	765.9	754.1	735.1	705.5	666.9	616.2	555.7	489.2	427.3	374.8
130°	756.2	751.8	740.0	721.5	691.3	652.2	602.1	543.9	482.8	426.7	379.6
132.5°	740.3	735.8	724.6	703.8	674.2	635.2	586.2	531.5	476.8	426.1	383.7
135°	710.5	706.1	694.3	673.6	644.1	607.3	562.3	514.4	468.0	425.3	389.8
137.5°	673.6	668.3	658.6	638.2	610.7	577.4	539.5	499.0	460.3	425.1	393.5
140°	647.1	641.2	630.8	614.6	588.9	557.9	524.7	490.1	456.2	424.5	396.5
142.5°	618.8	614.6	605.5	590.5	567.6	540.8	512.4	481.8	452.7	424.5	398.9
145°	580.0	576.4	568.9	556.5	538.0	517.4	495.3	470.2	446.6	423.0	400.2
147.5°	545.6	544.3	538.8	528.0	514.4	498.2	480.5	460.6	441.2	420.4	401.0
150°	526.2	525.5	521.0	511.5	499.6	486.4	471.6	454.7	437.1	418.6	401.0
152.5°	508.5	507.7	505.1	497.3	487.3	476.4	462.8	448.3	432.3	415.7	399.7
155°	485.7	485.7	483.4	477.6	470.2	461.4	450.3	438.5	425.3	411.2	397.9
157.5°	465.6	465.6	464.3	459.9	454.3	447.2	437.9	428.0	418.0	406.7	396.1
160°	453.3	453.3	452.5	448.1	443.7	437.8	429.7	421.6	412.7	403.1	394.3
162.5°	441.5	442.1	441.3	436.9	433.7	428.4	422.0	415.1	408.0	399.6	392.6
165°	423.8	424.5	425.3	422.3	419.3	415.7	410.5	406.0	400.2	394.3	389.2
167.5°	409.7	410.4	410.5	408.6	407.1	404.9	400.8	397.4	393.1	389.0	385.6
170°	401.0	401.0	401.6	401.0	399.4	397.3	394.3	392.1	388.4	385.4	383.2
172.5°	392.1	393.2	394.0	393.2	392.4	390.8	389.0	387.4	384.3	381.9	380.9
175°	381.7	383.2	384.7	383.2	383.2	383.2	381.7	381.1	379.6	378.1	378.1
177.5°	375.7	376.9	378.1	377.5	378.1	377.5	377.5	376.9	376.3	375.7	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1281.9	1276.3	1273.5	1267.1	1259.4	1255.4	1251.8	1246.6	1239.7	1232.6	1227.3
5°	1346.9	1334.9	1319.8	1301.8	1285.8	1270.3	1256.7	1243.2	1227.7	1211.5	1195.5
7.5°	1413.7	1390.1	1364.5	1334.9	1306.2	1280.0	1255.9	1232.8	1206.7	1183.5	1162.2
10°	1460.2	1428.1	1392.5	1355.0	1317.4	1284.8	1252.7	1223.6	1191.6	1163.0	1138.9
12.5°	1497.9	1460.2	1417.4	1370.6	1325.4	1286.0	1249.1	1211.2	1174.7	1143.7	1111.6
15°	1560.5	1508.8	1451.2	1395.1	1336.4	1282.8	1233.1	1189.0	1147.5	1103.8	1073.3
17.5°	1603.5	1542.2	1472.2	1404.7	1335.4	1272.1	1214.9	1162.3	1114.4	1069.8	1033.4
20°	1629.2	1561.5	1483.8	1407.1	1329.4	1261.7	1200.0	1141.9	1092.3	1044.1	1006.5
22.5°	1643.6	1568.7	1483.8	1403.4	1323.0	1249.7	1182.0	1121.4	1067.4	1019.3	977.7
25°	1648.2	1568.0	1481.3	1389.0	1300.8	1223.1	1152.9	1087.3	1027.1	979.0	934.9
27.5°	1641.8	1547.4	1458.5	1363.9	1272.8	1190.9	1117.3	1048.3	988.1	936.4	891.2
30°	1632.2	1530.9	1435.7	1337.4	1245.2	1166.5	1088.7	1022.6	960.0	906.3	860.7
32.5°	1611.3	1510.9	1408.3	1307.8	1214.3	1133.2	1059.5	993.0	931.5	876.7	828.2
35°	1570.0	1468.3	1357.0	1253.7	1162.0	1077.7	1008.6	944.4	885.8	827.1	776.0
37.5°	1515.6	1411.6	1300.9	1187.8	1096.0	1016.5	953.0	892.8	835.6	782.0	725.4
40°	1464.2	1369.5	1255.2	1142.9	1048.7	971.9	913.3	858.7	801.1	747.9	691.3
42.5°	1402.0	1321.4	1205.9	1093.2	1000.1	926.2	871.7	818.2	765.7	714.3	655.2
45°	1298.4	1237.2	1128.9	1020.6	926.9	853.7	803.5	756.4	710.3	661.2	605.6
47.5°	1179.4	1138.0	1044.5	933.7	847.0	781.1	732.6	694.2	655.2	606.1	557.2
50°	1096.8	1070.3	980.0	878.7	796.1	735.4	685.8	649.7	617.1	570.0	526.3
52.5°	1008.6	994.5	918.2	821.4	741.5	682.0	639.6	607.2	574.2	535.1	494.3
55°	874.2	881.7	817.1	733.4	658.2	608.0	569.5	542.3	514.3	481.3	449.7
57.5°	736.9	764.3	721.0	647.4	576.9	530.7	501.6	478.8	455.2	427.8	400.9
60°	654.7	677.7	653.2	588.5	526.9	483.7	456.7	439.1	415.6	390.5	369.9
62.5°	574.5	599.2	584.6	532.3	475.1	438.0	414.2	397.8	380.3	358.4	337.1
65°	473.7	489.7	482.8	446.7	406.0	374.5	352.4	340.4	324.3	308.3	289.3
67.5°	362.8	393.8	389.7	370.5	335.5	310.8	296.3	285.7	271.1	259.2	246.2
70°	298.2	326.9	326.3	310.8	291.7	268.7	258.6	249.7	236.6	225.1	214.5
72.5°	244.1	270.3	274.2	262.3	249.2	231.8	222.2	215.9	203.3	195.4	186.9
75°	171.0	190.0	195.0	195.0	189.0	179.9	171.4	167.4	158.4	151.4	146.4
77.5°	112.1	124.1	132.0	133.7	134.7	131.7	124.6	121.8	114.9	112.4	107.5
80°	79.2	87.2	96.2	99.2	101.8	100.8	97.7	95.8	89.3	86.7	84.7
82.5°	54.8	59.2	66.5	73.1	72.5	75.1	72.5	70.9	66.0	65.0	63.1
85°	28.6	29.0	30.1	34.6	37.1	38.1	38.6	37.6	36.1	36.1	32.6
87.5°	11.7	11.3	11.2	11.2	11.5	12.9	13.7	13.8	12.9	12.2	11.0
90°	10.3	10.3	5.9	5.9	5.2	4.4	2.2	0.8	2.2	4.4	5.2
92.5°	148.8	91.7	54.2	38.9	28.2	19.1	12.3	8.4	12.3	19.1	28.2
95°	277.1	156.3	92.1	61.2	43.5	33.9	26.5	24.3	26.5	33.9	43.5
97.5°	249.1	149.3	99.9	74.0	58.8	50.0	43.6	43.6	43.6	50.0	58.8
100°	234.4	151.1	107.6	84.0	70.0	61.2	56.0	56.0	56.0	61.2	70.0
102.5°	230.3	156.9	117.6	95.2	81.8	73.5	69.0	67.8	69.0	73.5	81.8
105°	232.1	171.0	135.6	114.2	100.9	92.1	88.4	86.2	88.4	92.1	100.9
107.5°	243.1	187.4	155.0	133.8	121.1	111.7	108.0	106.6	108.0	111.7	121.1
110°	251.3	199.7	167.3	147.4	134.1	125.3	121.6	120.2	121.6	125.3	134.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.1	211.5	180.3	160.3	147.1	138.8	134.6	133.1	134.6	138.8	147.1
115°	274.2	230.0	200.5	180.6	166.5	159.2	154.0	151.8	154.0	159.2	166.5
117.5°	288.4	247.8	219.8	199.2	186.1	178.0	173.3	171.3	173.3	178.0	186.1
120°	298.5	260.1	232.1	211.5	199.0	190.9	185.7	184.3	185.7	190.9	199.0
122.5°	307.9	271.9	243.9	223.9	210.2	202.6	197.6	196.0	197.6	202.6	210.2
125°	322.1	288.1	261.6	241.0	227.0	218.9	214.4	211.5	214.4	218.9	227.0
127.5°	334.3	303.2	277.6	256.7	242.1	232.9	227.6	225.3	227.6	232.9	242.1
130°	342.0	313.2	288.1	266.8	252.8	241.8	235.8	232.9	235.8	241.8	252.8
132.5°	349.6	321.5	296.4	276.3	261.1	250.6	242.9	240.5	242.9	250.6	261.1
135°	359.7	333.1	308.8	289.6	274.2	261.6	254.3	251.3	254.3	261.6	274.2
137.5°	366.7	342.0	319.2	301.0	284.9	273.0	264.9	262.1	264.9	273.0	284.9
140°	371.5	347.9	325.7	308.0	292.6	280.0	271.9	269.8	271.9	280.0	292.6
142.5°	374.9	353.2	331.7	314.5	299.6	287.8	280.2	278.0	280.2	287.8	299.6
145°	378.8	358.9	339.8	323.6	309.5	299.3	291.8	289.6	291.8	299.3	309.5
147.5°	382.2	364.9	346.9	332.2	320.6	310.0	303.5	302.7	303.5	310.0	320.6
150°	384.0	367.8	351.6	337.5	326.5	317.6	311.8	311.0	311.8	317.6	326.5
152.5°	385.1	370.1	355.7	342.9	333.0	324.7	318.9	318.7	318.9	324.7	333.0
155°	386.2	373.6	361.1	350.1	342.0	334.6	330.2	329.4	330.2	334.6	342.0
157.5°	386.2	376.2	365.5	356.8	349.8	344.0	339.9	339.9	339.9	344.0	349.8
160°	386.2	377.3	368.5	360.4	354.5	349.3	346.4	346.4	346.4	349.3	354.5
162.5°	386.2	378.5	370.2	363.9	358.6	354.0	351.7	352.3	351.7	354.0	358.6
165°	384.7	378.8	372.2	367.8	364.1	360.4	358.9	358.9	358.9	360.4	364.1
167.5°	383.0	378.7	373.8	370.4	368.3	365.5	364.9	365.5	364.9	365.5	368.3
170°	381.7	378.1	374.4	372.2	370.7	368.5	367.8	368.5	367.8	368.5	370.7
172.5°	380.6	377.5	374.9	373.3	372.5	370.9	370.7	371.5	370.7	370.9	372.5
175°	378.8	376.6	375.1	375.1	374.4	373.6	373.6	374.4	373.6	373.6	374.4
177.5°	376.9	375.7	375.1	375.1	375.1	374.6	375.1	375.7	375.1	374.6	375.1
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1221.7	1217.7	1212.5	1206.5	1199.3	1192.9	1190.1	1192.4	1193.6	1190.4	1190.1
5°	1184.5	1172.0	1162.0	1146.9	1134.9	1124.8	1117.9	1114.8	1115.9	1107.9	1105.8
7.5°	1142.7	1127.8	1111.4	1093.6	1076.9	1062.2	1054.5	1050.3	1041.8	1038.1	1032.0
10°	1115.9	1095.8	1079.8	1058.7	1039.6	1022.1	1013.6	1006.5	998.1	994.0	985.5
12.5°	1088.2	1064.9	1047.3	1025.4	1006.0	984.8	976.7	963.7	950.4	941.9	930.9
15°	1049.1	1021.2	999.6	973.5	950.5	926.3	904.8	880.7	871.8	852.7	841.7
17.5°	1003.5	975.1	948.4	913.4	877.9	848.0	825.0	801.9	788.2	776.0	770.3
20°	973.5	947.4	910.3	869.7	830.1	797.0	778.4	763.5	748.4	739.9	733.9
22.5°	945.0	911.7	868.6	824.8	785.2	759.3	743.6	728.1	716.0	707.8	699.7
25°	897.3	853.7	808.0	757.9	730.8	708.3	691.3	678.7	671.2	660.7	656.7
27.5°	848.3	795.4	745.1	711.4	683.2	662.6	647.7	638.3	628.8	622.1	616.9
30°	810.6	757.0	711.8	679.8	651.2	634.1	622.1	611.1	603.5	598.0	594.0
32.5°	773.3	719.6	681.7	647.2	624.7	608.0	595.2	587.0	581.1	574.0	571.6
35°	719.3	671.8	638.7	607.6	584.5	569.5	559.4	550.9	545.9	543.8	542.3
37.5°	667.5	628.5	593.0	567.4	546.9	535.1	523.2	519.1	515.6	512.0	513.6
40°	634.6	598.0	566.5	539.4	522.8	509.8	502.8	497.8	494.7	494.7	494.7
42.5°	606.1	570.3	539.6	515.3	498.8	487.8	479.9	475.7	474.7	474.3	476.7
45°	561.9	528.9	497.8	477.7	463.6	452.6	448.2	444.6	444.6	446.7	447.1
47.5°	518.1	487.1	462.2	439.7	426.9	420.0	416.0	414.2	414.4	416.5	418.8
50°	491.3	460.7	436.1	416.0	404.1	397.5	394.0	393.0	394.0	394.0	397.5
52.5°	461.9	434.6	410.5	393.6	379.9	373.8	371.9	370.5	371.2	372.8	374.3
55°	419.1	394.5	371.5	355.4	345.3	341.4	336.9	337.3	336.4	337.3	337.3
57.5°	376.1	354.0	332.5	319.8	311.0	305.2	300.3	301.7	300.2	300.0	299.2
60°	348.4	324.3	307.3	295.8	285.7	280.7	276.2	277.2	275.7	274.7	272.7
62.5°	318.3	298.2	282.0	270.9	262.9	257.0	252.5	251.6	248.1	244.6	240.3
65°	274.7	258.2	243.6	233.1	225.6	221.0	217.5	214.5	207.0	199.0	195.0
67.5°	232.3	220.4	206.8	197.9	191.8	185.9	179.2	174.1	167.0	162.6	160.1
70°	205.0	193.5	182.0	173.4	166.9	161.5	153.9	150.4	145.3	143.4	140.8
72.5°	179.0	168.2	157.5	149.8	142.9	138.6	132.6	129.1	127.0	126.1	123.7
75°	139.4	130.8	122.8	115.8	110.3	107.3	104.8	102.3	101.2	96.7	94.3
77.5°	101.7	96.0	91.0	86.1	82.1	80.1	75.3	72.4	70.7	68.6	68.1
80°	79.2	75.2	70.2	67.2	61.6	59.7	57.7	57.1	56.6	56.2	55.6
82.5°	59.6	55.5	50.5	48.7	47.2	46.0	44.8	44.3	43.8	44.1	44.0
85°	30.1	28.1	28.1	27.6	27.1	26.6	26.1	26.1	25.5	26.1	25.5
87.5°	11.2	10.8	11.7	10.8	11.6	11.9	11.3	11.5	12.1	11.4	11.4
90°	5.9	5.9	10.3	10.3	11.8	13.3	12.5	13.3	14.0	14.7	14.7
92.5°	38.9	54.2	91.7	148.8	204.6	233.8	194.7	144.8	109.0	86.7	71.9
95°	61.2	92.1	156.3	277.1	453.3	600.7	617.6	546.1	431.9	333.1	261.6
97.5°	74.0	99.9	149.3	249.1	424.2	632.6	775.9	806.8	764.4	692.3	615.4
100°	84.0	107.6	151.1	234.4	384.7	592.6	781.2	888.8	903.5	867.4	812.9
102.5°	95.2	117.6	156.9	230.3	358.2	542.4	737.0	884.7	957.8	968.3	945.6
105°	114.2	135.6	171.0	232.1	335.4	483.4	656.7	825.5	952.9	1025.9	1056.1
107.5°	133.8	155.0	187.4	243.1	331.2	450.4	591.8	741.3	877.0	979.8	1045.5
110°	147.4	167.3	199.7	251.3	332.3	439.2	559.4	690.6	818.0	924.9	1006.0



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	160.3	180.3	211.5	260.1	335.9	433.9	541.1	653.5	766.2	867.1	948.2
115°	180.6	200.5	230.0	274.2	342.7	431.1	524.0	616.1	706.8	793.0	863.7
117.5°	199.2	219.8	247.8	288.4	350.0	430.4	516.3	597.9	672.9	740.6	800.7
120°	211.5	232.1	260.1	298.5	355.2	430.4	512.2	589.6	658.2	717.1	769.4
122.5°	223.9	243.9	271.9	307.9	360.5	429.8	507.5	582.5	648.7	702.4	748.2
125°	241.0	261.6	288.1	322.1	368.5	429.0	499.6	570.4	633.9	684.7	725.2
127.5°	256.7	277.6	303.2	334.3	374.8	427.3	489.2	555.7	616.2	666.9	705.5
130°	266.8	288.1	313.2	342.0	379.6	426.7	482.8	543.9	602.1	652.2	691.3
132.5°	276.3	296.4	321.5	349.6	383.7	426.1	476.8	531.5	586.2	635.2	674.2
135°	289.6	308.8	333.1	359.7	389.8	425.3	468.0	514.4	562.3	607.3	644.1
137.5°	301.0	319.2	342.0	366.7	393.5	425.1	460.3	499.0	539.5	577.4	610.7
140°	308.0	325.7	347.9	371.5	396.5	424.5	456.2	490.1	524.7	557.9	588.9
142.5°	314.5	331.7	353.2	374.9	398.9	424.5	452.7	481.8	512.4	540.8	567.6
145°	323.6	339.8	358.9	378.8	400.2	423.0	446.6	470.2	495.3	517.4	538.0
147.5°	332.2	346.9	364.9	382.2	401.0	420.4	441.2	460.6	480.5	498.2	514.4
150°	337.5	351.6	367.8	384.0	401.0	418.6	437.1	454.7	471.6	486.4	499.6
152.5°	342.9	355.7	370.1	385.1	399.7	415.7	432.3	448.3	462.8	476.4	487.3
155°	350.1	361.1	373.6	386.2	397.9	411.2	425.3	438.5	450.3	461.4	470.2
157.5°	356.8	365.5	376.2	386.2	396.1	406.7	418.0	428.0	437.9	447.2	454.3
160°	360.4	368.5	377.3	386.2	394.3	403.1	412.7	421.6	429.7	437.8	443.7
162.5°	363.9	370.2	378.5	386.2	392.6	399.6	408.0	415.1	422.0	428.4	433.7
165°	367.8	372.2	378.8	384.7	389.2	394.3	400.2	406.0	410.5	415.7	419.3
167.5°	370.4	373.8	378.7	383.0	385.6	389.0	393.1	397.4	400.8	404.9	407.1
170°	372.2	374.4	378.1	381.7	383.2	385.4	388.4	392.1	394.3	397.3	399.4
172.5°	373.3	374.9	377.5	380.6	380.9	381.9	384.3	387.4	389.0	390.8	392.4
175°	375.1	375.1	376.6	378.8	378.1	378.1	379.6	381.1	381.7	383.2	383.2
177.5°	375.1	375.1	375.7	376.9	375.7	375.7	376.3	376.9	377.5	377.5	378.1
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1187.6	1188.5	1185.6	1184.8	1185.6	1188.5	1187.6	1190.1	1190.4	1193.6	1192.4
5°	1101.8	1100.8	1098.3	1098.8	1098.3	1100.8	1101.8	1105.8	1107.9	1115.9	1114.8
7.5°	1028.4	1024.5	1025.6	1021.6	1025.6	1024.5	1028.4	1032.0	1038.1	1041.8	1050.3
10°	983.5	978.0	973.5	969.5	973.5	978.0	983.5	985.5	994.0	998.1	1006.5
12.5°	922.2	917.5	911.3	912.6	911.3	917.5	922.2	930.9	941.9	950.4	963.7
15°	835.1	827.6	815.6	817.1	815.6	827.6	835.1	841.7	852.7	871.8	880.7
17.5°	761.5	761.6	756.0	757.3	756.0	761.6	761.5	770.3	776.0	788.2	801.9
20°	723.3	719.8	720.3	718.9	720.3	719.8	723.3	733.9	739.9	748.4	763.5
22.5°	696.9	692.6	689.1	686.0	689.1	692.6	696.9	699.7	707.8	716.0	728.1
25°	652.1	649.1	644.6	643.7	644.6	649.1	652.1	656.7	660.7	671.2	678.7
27.5°	612.8	612.3	610.5	608.1	610.5	612.3	612.8	616.9	622.1	628.8	638.3
30°	590.0	589.0	588.0	586.4	588.0	589.0	590.0	594.0	598.0	603.5	611.1
32.5°	569.6	568.9	568.0	568.1	568.0	568.9	569.6	571.6	574.0	581.1	587.0
35°	540.4	539.9	538.9	538.4	538.9	539.9	540.4	542.3	543.8	545.9	550.9
37.5°	513.1	514.4	513.8	513.7	513.8	514.4	513.1	513.6	512.0	515.6	519.1
40°	494.3	494.7	495.8	495.3	495.8	494.7	494.3	494.7	494.7	494.7	497.8
42.5°	478.6	478.7	480.1	478.4	480.1	478.7	478.6	476.7	474.3	474.7	475.7
45°	450.6	453.6	453.2	453.2	453.2	453.6	450.6	447.1	446.7	444.6	444.6
47.5°	420.1	422.6	423.4	423.3	423.4	422.6	420.1	418.8	416.5	414.4	414.2
50°	400.0	399.0	400.5	400.0	400.5	399.0	400.0	397.5	394.0	394.0	393.0
52.5°	375.6	375.8	375.7	375.1	375.7	375.8	375.6	374.3	372.8	371.2	370.5
55°	337.9	338.4	337.3	337.9	337.3	338.4	337.9	337.3	337.3	336.4	337.3
57.5°	297.0	294.5	295.6	294.4	295.6	294.5	297.0	299.2	300.0	300.2	301.7
60°	267.7	263.6	262.7	260.7	262.7	263.6	267.7	272.7	274.7	275.7	277.2
62.5°	234.8	232.0	228.6	230.2	228.6	232.0	234.8	240.3	244.6	248.1	251.6
65°	191.0	189.0	187.5	189.5	187.5	189.0	191.0	195.0	199.0	207.0	214.5
67.5°	158.1	157.0	157.0	156.0	157.0	157.0	158.1	160.1	162.6	167.0	174.1
70°	140.8	139.4	139.4	138.4	139.4	139.4	140.8	140.8	143.4	145.3	150.4
72.5°	123.2	121.7	122.2	121.5	122.2	121.7	123.2	123.7	126.1	127.0	129.1
75°	91.2	88.7	88.7	89.3	88.7	88.7	91.2	94.3	96.7	101.2	102.3
77.5°	68.1	67.6	68.2	67.4	68.2	67.6	68.1	68.1	68.6	70.7	72.4
80°	55.6	55.1	54.7	56.2	54.7	55.1	55.6	55.6	56.2	56.6	57.1
82.5°	43.2	43.1	43.0	45.0	43.0	43.1	43.2	44.0	44.1	43.8	44.3
85°	26.1	25.1	26.1	25.1	26.1	25.1	26.1	25.5	26.1	25.5	26.1
87.5°	12.3	12.1	11.5	11.9	11.5	12.1	12.3	11.4	11.4	12.1	11.5
90°	15.5	16.2	15.5	15.5	15.5	16.2	15.5	14.7	14.7	14.0	13.3
92.5°	63.2	59.3	56.7	56.7	56.7	59.3	63.2	71.9	86.7	109.0	144.8
95°	225.6	202.6	189.5	179.8	189.5	202.6	225.6	261.6	333.1	431.9	546.1
97.5°	562.5	518.1	496.0	480.7	496.0	518.1	562.5	615.4	692.3	764.4	806.8
100°	748.8	703.8	681.7	675.8	681.7	703.8	748.8	812.9	867.4	903.5	888.8
102.5°	906.3	873.6	850.4	845.6	850.4	873.6	906.3	945.6	968.3	957.8	884.7
105°	1057.6	1051.7	1041.4	1037.0	1041.4	1051.7	1057.6	1056.1	1025.9	952.9	825.5
107.5°	1081.9	1098.7	1106.1	1108.0	1106.1	1098.7	1081.9	1045.5	979.8	877.0	741.3
110°	1058.3	1089.3	1102.6	1109.2	1102.6	1089.3	1058.3	1006.0	924.9	818.0	690.6



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1007.6	1045.1	1063.7	1074.4	1063.7	1045.1	1007.6	948.2	867.1	766.2	653.5
115°	922.0	966.2	989.8	995.7	989.8	966.2	922.0	863.7	793.0	706.8	616.1
117.5°	850.4	887.5	911.3	916.0	911.3	887.5	850.4	800.7	740.6	672.9	597.9
120°	811.4	843.9	863.0	871.1	863.0	843.9	811.4	769.4	717.1	658.2	589.6
122.5°	783.7	811.4	827.6	835.8	827.6	811.4	783.7	748.2	702.4	648.7	582.5
125°	754.7	776.1	790.0	794.5	790.0	776.1	754.7	725.2	684.7	633.9	570.4
127.5°	735.1	754.1	765.9	770.3	765.9	754.1	735.1	705.5	666.9	616.2	555.7
130°	721.5	740.0	751.8	756.2	751.8	740.0	721.5	691.3	652.2	602.1	543.9
132.5°	703.8	724.6	735.8	740.3	735.8	724.6	703.8	674.2	635.2	586.2	531.5
135°	673.6	694.3	706.1	710.5	706.1	694.3	673.6	644.1	607.3	562.3	514.4
137.5°	638.2	658.6	668.3	673.6	668.3	658.6	638.2	610.7	577.4	539.5	499.0
140°	614.6	630.8	641.2	647.1	641.2	630.8	614.6	588.9	557.9	524.7	490.1
142.5°	590.5	605.5	614.6	618.8	614.6	605.5	590.5	567.6	540.8	512.4	481.8
145°	556.5	568.9	576.4	580.0	576.4	568.9	556.5	538.0	517.4	495.3	470.2
147.5°	528.0	538.8	544.3	545.6	544.3	538.8	528.0	514.4	498.2	480.5	460.6
150°	511.5	521.0	525.5	526.2	525.5	521.0	511.5	499.6	486.4	471.6	454.7
152.5°	497.3	505.1	507.7	508.5	507.7	505.1	497.3	487.3	476.4	462.8	448.3
155°	477.6	483.4	485.7	485.7	485.7	483.4	477.6	470.2	461.4	450.3	438.5
157.5°	459.9	464.3	465.6	465.6	465.6	464.3	459.9	454.3	447.2	437.9	428.0
160°	448.1	452.5	453.3	453.3	453.3	452.5	448.1	443.7	437.8	429.7	421.6
162.5°	436.9	441.3	442.1	441.5	442.1	441.3	436.9	433.7	428.4	422.0	415.1
165°	422.3	425.3	424.5	423.8	424.5	425.3	422.3	419.3	415.7	410.5	406.0
167.5°	408.6	410.5	410.4	409.7	410.4	410.5	408.6	407.1	404.9	400.8	397.4
170°	401.0	401.6	401.0	401.0	401.0	401.6	401.0	399.4	397.3	394.3	392.1
172.5°	393.2	394.0	393.2	392.1	393.2	394.0	393.2	392.4	390.8	389.0	387.4
175°	383.2	384.7	383.2	381.7	383.2	384.7	383.2	383.2	383.2	381.7	381.1
177.5°	377.5	378.1	376.9	375.7	376.9	378.1	377.5	378.1	377.5	377.5	376.9
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830
 CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1190.1	1192.9	1199.3	1206.5	1212.5	1217.7	1221.7	1227.3	1232.6	1239.7	1246.6
5°	1117.9	1124.8	1134.9	1146.9	1162.0	1172.0	1184.5	1195.5	1211.5	1227.7	1243.2
7.5°	1054.5	1062.2	1076.9	1093.6	1111.4	1127.8	1142.7	1162.2	1183.5	1206.7	1232.8
10°	1013.6	1022.1	1039.6	1058.7	1079.8	1095.8	1115.9	1138.9	1163.0	1191.6	1223.6
12.5°	976.7	984.8	1006.0	1025.4	1047.3	1064.9	1088.2	1111.6	1143.7	1174.7	1211.2
15°	904.8	926.3	950.5	973.5	999.6	1021.2	1049.1	1073.3	1103.8	1147.5	1189.0
17.5°	825.0	848.0	877.9	913.4	948.4	975.1	1003.5	1033.4	1069.8	1114.4	1162.3
20°	778.4	797.0	830.1	869.7	910.3	947.4	973.5	1006.5	1044.1	1092.3	1141.9
22.5°	743.6	759.3	785.2	824.8	868.6	911.7	945.0	977.7	1019.3	1067.4	1121.4
25°	691.3	708.3	730.8	757.9	808.0	853.7	897.3	934.9	979.0	1027.1	1087.3
27.5°	647.7	662.6	683.2	711.4	745.1	795.4	848.3	891.2	936.4	988.1	1048.3
30°	622.1	634.1	651.2	679.8	711.8	757.0	810.6	860.7	906.3	960.0	1022.6
32.5°	595.2	608.0	624.7	647.2	681.7	719.6	773.3	828.2	876.7	931.5	993.0
35°	559.4	569.5	584.5	607.6	638.7	671.8	719.3	776.0	827.1	885.8	944.4
37.5°	523.2	535.1	546.9	567.4	593.0	628.5	667.5	725.4	782.0	835.6	892.8
40°	502.8	509.8	522.8	539.4	566.5	598.0	634.6	691.3	747.9	801.1	858.7
42.5°	479.9	487.8	498.8	515.3	539.6	570.3	606.1	655.2	714.3	765.7	818.2
45°	448.2	452.6	463.6	477.7	497.8	528.9	561.9	605.6	661.2	710.3	756.4
47.5°	416.0	420.0	426.9	439.7	462.2	487.1	518.1	557.2	606.1	655.2	694.2
50°	394.0	397.5	404.1	416.0	436.1	460.7	491.3	526.3	570.0	617.1	649.7
52.5°	371.9	373.8	379.9	393.6	410.5	434.6	461.9	494.3	535.1	574.2	607.2
55°	336.9	341.4	345.3	355.4	371.5	394.5	419.1	449.7	481.3	514.3	542.3
57.5°	300.3	305.2	311.0	319.8	332.5	354.0	376.1	400.9	427.8	455.2	478.8
60°	276.2	280.7	285.7	295.8	307.3	324.3	348.4	369.9	390.5	415.6	439.1
62.5°	252.5	257.0	262.9	270.9	282.0	298.2	318.3	337.1	358.4	380.3	397.8
65°	217.5	221.0	225.6	233.1	243.6	258.2	274.7	289.3	308.3	324.3	340.4
67.5°	179.2	185.9	191.8	197.9	206.8	220.4	232.3	246.2	259.2	271.1	285.7
70°	153.9	161.5	166.9	173.4	182.0	193.5	205.0	214.5	225.1	236.6	249.7
72.5°	132.6	138.6	142.9	149.8	157.5	168.2	179.0	186.9	195.4	203.3	215.9
75°	104.8	107.3	110.3	115.8	122.8	130.8	139.4	146.4	151.4	158.4	167.4
77.5°	75.3	80.1	82.1	86.1	91.0	96.0	101.7	107.5	112.4	114.9	121.8
80°	57.7	59.7	61.6	67.2	70.2	75.2	79.2	84.7	86.7	89.3	95.8
82.5°	44.8	46.0	47.2	48.7	50.5	55.5	59.6	63.1	65.0	66.0	70.9
85°	26.1	26.6	27.1	27.6	28.1	28.1	30.1	32.6	36.1	36.1	37.6
87.5°	11.3	11.9	11.6	10.8	11.7	10.8	11.2	11.0	12.2	12.9	13.8
90°	12.5	13.3	11.8	10.3	10.3	5.9	5.9	5.2	4.4	2.2	0.8
92.5°	194.7	233.8	204.6	148.8	91.7	54.2	38.9	28.2	19.1	12.3	8.4
95°	617.6	600.7	453.3	277.1	156.3	92.1	61.2	43.5	33.9	26.5	24.3
97.5°	775.9	632.6	424.2	249.1	149.3	99.9	74.0	58.8	50.0	43.6	43.6
100°	781.2	592.6	384.7	234.4	151.1	107.6	84.0	70.0	61.2	56.0	56.0
102.5°	737.0	542.4	358.2	230.3	156.9	117.6	95.2	81.8	73.5	69.0	67.8
105°	656.7	483.4	335.4	232.1	171.0	135.6	114.2	100.9	92.1	88.4	86.2
107.5°	591.8	450.4	331.2	243.1	187.4	155.0	133.8	121.1	111.7	108.0	106.6
110°	559.4	439.2	332.3	251.3	199.7	167.3	147.4	134.1	125.3	121.6	120.2



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	541.1	433.9	335.9	260.1	211.5	180.3	160.3	147.1	138.8	134.6	133.1
115°	524.0	431.1	342.7	274.2	230.0	200.5	180.6	166.5	159.2	154.0	151.8
117.5°	516.3	430.4	350.0	288.4	247.8	219.8	199.2	186.1	178.0	173.3	171.3
120°	512.2	430.4	355.2	298.5	260.1	232.1	211.5	199.0	190.9	185.7	184.3
122.5°	507.5	429.8	360.5	307.9	271.9	243.9	223.9	210.2	202.6	197.6	196.0
125°	499.6	429.0	368.5	322.1	288.1	261.6	241.0	227.0	218.9	214.4	211.5
127.5°	489.2	427.3	374.8	334.3	303.2	277.6	256.7	242.1	232.9	227.6	225.3
130°	482.8	426.7	379.6	342.0	313.2	288.1	266.8	252.8	241.8	235.8	232.9
132.5°	476.8	426.1	383.7	349.6	321.5	296.4	276.3	261.1	250.6	242.9	240.5
135°	468.0	425.3	389.8	359.7	333.1	308.8	289.6	274.2	261.6	254.3	251.3
137.5°	460.3	425.1	393.5	366.7	342.0	319.2	301.0	284.9	273.0	264.9	262.1
140°	456.2	424.5	396.5	371.5	347.9	325.7	308.0	292.6	280.0	271.9	269.8
142.5°	452.7	424.5	398.9	374.9	353.2	331.7	314.5	299.6	287.8	280.2	278.0
145°	446.6	423.0	400.2	378.8	358.9	339.8	323.6	309.5	299.3	291.8	289.6
147.5°	441.2	420.4	401.0	382.2	364.9	346.9	332.2	320.6	310.0	303.5	302.7
150°	437.1	418.6	401.0	384.0	367.8	351.6	337.5	326.5	317.6	311.8	311.0
152.5°	432.3	415.7	399.7	385.1	370.1	355.7	342.9	333.0	324.7	318.9	318.7
155°	425.3	411.2	397.9	386.2	373.6	361.1	350.1	342.0	334.6	330.2	329.4
157.5°	418.0	406.7	396.1	386.2	376.2	365.5	356.8	349.8	344.0	339.9	339.9
160°	412.7	403.1	394.3	386.2	377.3	368.5	360.4	354.5	349.3	346.4	346.4
162.5°	408.0	399.6	392.6	386.2	378.5	370.2	363.9	358.6	354.0	351.7	352.3
165°	400.2	394.3	389.2	384.7	378.8	372.2	367.8	364.1	360.4	358.9	358.9
167.5°	393.1	389.0	385.6	383.0	378.7	373.8	370.4	368.3	365.5	364.9	365.5
170°	388.4	385.4	383.2	381.7	378.1	374.4	372.2	370.7	368.5	367.8	368.5
172.5°	384.3	381.9	380.9	380.6	377.5	374.9	373.3	372.5	370.9	370.7	371.5
175°	379.6	378.1	378.1	378.8	376.6	375.1	375.1	374.4	373.6	373.6	374.4
177.5°	376.3	375.7	375.7	376.9	375.7	375.1	375.1	375.1	374.6	375.1	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1251.8	1255.4	1259.4	1267.1	1273.5	1276.3	1281.9	1285.9	1284.7	1290.2	1300.0
5°	1256.7	1270.3	1285.8	1301.8	1319.8	1334.9	1346.9	1359.0	1368.5	1380.0	1397.0
7.5°	1255.9	1280.0	1306.2	1334.9	1364.5	1390.1	1413.7	1437.8	1459.2	1482.5	1513.1
10°	1252.7	1284.8	1317.4	1355.0	1392.5	1428.1	1460.2	1490.3	1518.9	1549.4	1588.1
12.5°	1249.1	1286.0	1325.4	1370.6	1417.4	1460.2	1497.9	1541.2	1577.1	1616.5	1661.0
15°	1233.1	1282.8	1336.4	1395.1	1451.2	1508.8	1560.5	1613.6	1663.2	1710.3	1766.5
17.5°	1214.9	1272.1	1335.4	1404.7	1472.2	1542.2	1603.5	1670.5	1721.2	1784.4	1836.5
20°	1200.0	1261.7	1329.4	1407.1	1483.8	1561.5	1629.2	1697.3	1754.4	1818.2	1884.3
22.5°	1182.0	1249.7	1323.0	1403.4	1483.8	1568.7	1643.6	1711.4	1782.2	1853.8	1922.0
25°	1152.9	1223.1	1300.8	1389.0	1481.3	1568.0	1648.2	1732.4	1808.6	1886.3	1947.5
27.5°	1117.3	1190.9	1272.8	1363.9	1458.5	1547.4	1641.8	1731.5	1808.2	1883.0	1936.4
30°	1088.7	1166.5	1245.2	1337.4	1435.7	1530.9	1632.2	1721.9	1802.6	1869.8	1899.9
32.5°	1059.5	1133.2	1214.3	1307.8	1408.3	1510.9	1611.3	1703.1	1777.7	1818.1	1818.8
35°	1008.6	1077.7	1162.0	1253.7	1357.0	1468.3	1570.0	1660.2	1705.8	1709.4	1660.2
37.5°	953.0	1016.5	1096.0	1187.8	1300.9	1411.6	1515.6	1575.7	1590.9	1539.9	1449.1
40°	913.3	971.9	1048.7	1142.9	1255.2	1369.5	1464.2	1508.4	1492.3	1409.6	1308.3
42.5°	871.7	926.2	1000.1	1093.2	1205.9	1321.4	1402.0	1425.8	1383.3	1287.7	1169.2
45°	803.5	853.7	926.9	1020.6	1128.9	1237.2	1298.4	1286.3	1215.6	1102.3	969.5
47.5°	732.6	781.1	847.0	933.7	1044.5	1138.0	1179.4	1143.1	1042.5	917.9	809.8
50°	685.8	735.4	796.1	878.7	980.0	1070.3	1096.8	1041.7	929.9	810.0	710.8
52.5°	639.6	682.0	741.5	821.4	918.2	994.5	1008.6	945.0	829.6	722.3	634.2
55°	569.5	608.0	658.2	733.4	817.1	881.7	874.2	792.5	687.8	596.1	526.9
57.5°	501.6	530.7	576.9	647.4	721.0	764.3	736.9	667.2	569.6	494.5	436.1
60°	456.7	483.7	526.9	588.5	653.2	677.7	654.7	579.0	501.8	433.1	384.0
62.5°	414.2	438.0	475.1	532.3	584.6	599.2	574.5	508.4	438.8	380.1	339.5
65°	352.4	374.5	406.0	446.7	482.8	489.7	473.7	406.0	353.4	304.3	276.2
67.5°	296.3	310.8	335.5	370.5	389.7	393.8	362.8	320.3	273.9	243.7	222.5
70°	258.6	268.7	291.7	310.8	326.3	326.9	298.2	264.2	228.6	204.1	188.5
72.5°	222.2	231.8	249.2	262.3	274.2	270.3	244.1	217.3	188.5	169.9	158.4
75°	171.4	179.9	189.0	195.0	195.0	190.0	171.0	150.9	134.3	123.3	119.8
77.5°	124.6	131.7	134.7	133.7	132.0	124.1	112.1	99.0	93.0	87.8	85.2
80°	97.7	100.8	101.8	99.2	96.2	87.2	79.2	73.7	68.1	66.2	65.1
82.5°	72.5	75.1	72.5	73.1	66.5	59.2	54.8	52.9	50.5	49.8	48.7
85°	38.6	38.1	37.1	34.6	30.1	29.0	28.6	28.1	27.1	27.6	26.6
87.5°	13.7	12.9	11.5	11.2	11.2	11.3	11.7	12.0	12.3	11.7	12.7
90°	2.2	4.4	5.2	5.9	5.9	10.3	10.3	11.8	13.3	12.5	13.3
92.5°	12.3	19.1	28.2	38.9	54.2	91.7	148.8	204.6	233.8	194.7	144.8
95°	26.5	33.9	43.5	61.2	92.1	156.3	277.1	453.3	600.7	617.6	546.1
97.5°	43.6	50.0	58.8	74.0	99.9	149.3	249.1	424.2	632.6	775.9	806.8
100°	56.0	61.2	70.0	84.0	107.6	151.1	234.4	384.7	592.6	781.2	888.8
102.5°	69.0	73.5	81.8	95.2	117.6	156.9	230.3	358.2	542.4	737.0	884.7
105°	88.4	92.1	100.9	114.2	135.6	171.0	232.1	335.4	483.4	656.7	825.5
107.5°	108.0	111.7	121.1	133.8	155.0	187.4	243.1	331.2	450.4	591.8	741.3
110°	121.6	125.3	134.1	147.4	167.3	199.7	251.3	332.3	439.2	559.4	690.6



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.6	138.8	147.1	160.3	180.3	211.5	260.1	335.9	433.9	541.1	653.5
115°	154.0	159.2	166.5	180.6	200.5	230.0	274.2	342.7	431.1	524.0	616.1
117.5°	173.3	178.0	186.1	199.2	219.8	247.8	288.4	350.0	430.4	516.3	597.9
120°	185.7	190.9	199.0	211.5	232.1	260.1	298.5	355.2	430.4	512.2	589.6
122.5°	197.6	202.6	210.2	223.9	243.9	271.9	307.9	360.5	429.8	507.5	582.5
125°	214.4	218.9	227.0	241.0	261.6	288.1	322.1	368.5	429.0	499.6	570.4
127.5°	227.6	232.9	242.1	256.7	277.6	303.2	334.3	374.8	427.3	489.2	555.7
130°	235.8	241.8	252.8	266.8	288.1	313.2	342.0	379.6	426.7	482.8	543.9
132.5°	242.9	250.6	261.1	276.3	296.4	321.5	349.6	383.7	426.1	476.8	531.5
135°	254.3	261.6	274.2	289.6	308.8	333.1	359.7	389.8	425.3	468.0	514.4
137.5°	264.9	273.0	284.9	301.0	319.2	342.0	366.7	393.5	425.1	460.3	499.0
140°	271.9	280.0	292.6	308.0	325.7	347.9	371.5	396.5	424.5	456.2	490.1
142.5°	280.2	287.8	299.6	314.5	331.7	353.2	374.9	398.9	424.5	452.7	481.8
145°	291.8	299.3	309.5	323.6	339.8	358.9	378.8	400.2	423.0	446.6	470.2
147.5°	303.5	310.0	320.6	332.2	346.9	364.9	382.2	401.0	420.4	441.2	460.6
150°	311.8	317.6	326.5	337.5	351.6	367.8	384.0	401.0	418.6	437.1	454.7
152.5°	318.9	324.7	333.0	342.9	355.7	370.1	385.1	399.7	415.7	432.3	448.3
155°	330.2	334.6	342.0	350.1	361.1	373.6	386.2	397.9	411.2	425.3	438.5
157.5°	339.9	344.0	349.8	356.8	365.5	376.2	386.2	396.1	406.7	418.0	428.0
160°	346.4	349.3	354.5	360.4	368.5	377.3	386.2	394.3	403.1	412.7	421.6
162.5°	351.7	354.0	358.6	363.9	370.2	378.5	386.2	392.6	399.6	408.0	415.1
165°	358.9	360.4	364.1	367.8	372.2	378.8	384.7	389.2	394.3	400.2	406.0
167.5°	364.9	365.5	368.3	370.4	373.8	378.7	383.0	385.6	389.0	393.1	397.4
170°	367.8	368.5	370.7	372.2	374.4	378.1	381.7	383.2	385.4	388.4	392.1
172.5°	370.7	370.9	372.5	373.3	374.9	377.5	380.6	380.9	381.9	384.3	387.4
175°	373.6	373.6	374.4	375.1	375.1	376.6	378.8	378.1	378.1	379.6	381.1
177.5°	375.1	374.6	375.1	375.1	375.1	375.7	376.9	375.7	375.7	376.3	376.9
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1305.1	1306.7	1308.0	1311.9	1312.3	1316.0	1312.3
5°	1413.1	1420.1	1431.2	1442.2	1443.2	1450.2	1437.7
7.5°	1534.2	1550.5	1560.6	1578.4	1585.5	1589.9	1582.6
10°	1617.6	1632.7	1659.3	1672.3	1685.3	1687.3	1681.3
12.5°	1698.3	1722.1	1743.0	1767.7	1767.1	1784.8	1778.3
15°	1805.6	1830.1	1859.3	1886.8	1896.9	1896.9	1904.9
17.5°	1882.2	1927.2	1957.3	1979.0	2002.6	2006.7	2003.9
20°	1933.9	1982.5	2014.7	2042.7	2058.8	2063.2	2063.2
22.5°	1972.5	2013.8	2045.1	2070.4	2083.6	2089.0	2087.4
25°	1999.1	2034.7	2053.7	2061.2	2064.7	2063.8	2054.3
27.5°	1962.6	1961.0	1949.0	1925.9	1908.6	1898.0	1886.0
30°	1892.8	1866.8	1836.7	1803.6	1761.0	1728.4	1718.3
32.5°	1788.9	1730.4	1679.5	1624.4	1578.6	1546.0	1532.3
35°	1588.1	1495.3	1419.7	1353.5	1305.3	1275.3	1265.3
37.5°	1349.6	1259.9	1166.2	1102.0	1062.2	1031.7	1020.4
40°	1198.1	1100.3	1018.6	958.5	917.4	887.8	887.3
42.5°	1059.7	966.4	889.5	846.1	801.8	782.3	782.2
45°	867.7	793.1	727.8	693.8	667.2	651.2	646.7
47.5°	718.4	656.7	613.2	586.1	564.4	554.2	547.6
50°	634.6	580.5	545.9	522.4	510.3	497.3	496.2
52.5°	564.9	521.1	494.2	475.0	459.8	451.9	452.1
55°	474.7	440.2	421.0	406.5	394.5	388.5	386.0
57.5°	399.9	374.0	360.1	346.8	341.7	337.0	335.6
60°	353.4	335.8	322.8	312.3	304.8	303.3	302.7
62.5°	314.9	296.5	287.6	279.4	273.9	271.5	270.7
65°	259.7	246.1	238.1	231.6	229.6	226.1	225.6
67.5°	209.3	201.2	195.9	191.4	188.7	188.5	188.5
70°	178.4	173.9	169.5	166.9	165.4	164.4	164.4
72.5°	152.0	148.6	145.0	143.6	143.4	142.3	141.9
75°	115.8	112.3	112.8	110.3	108.3	105.8	104.2
77.5°	82.1	79.6	79.1	78.8	77.1	76.8	77.6
80°	63.6	61.2	60.7	61.2	60.7	59.2	59.2
82.5°	48.4	46.3	45.8	45.5	45.1	45.5	44.7
85°	26.1	25.1	25.1	25.1	26.1	25.5	25.1
87.5°	12.1	11.8	12.2	11.9	12.1	11.5	11.9
90°	14.0	14.7	14.7	15.5	16.2	15.5	15.5
92.5°	109.0	86.7	71.9	63.2	59.3	56.7	56.7
95°	431.9	333.1	261.6	225.6	202.6	189.5	179.8
97.5°	764.4	692.3	615.4	562.5	518.1	496.0	480.7
100°	903.5	867.4	812.9	748.8	703.8	681.7	675.8
102.5°	957.8	968.3	945.6	906.3	873.6	850.4	845.6
105°	952.9	1025.9	1056.1	1057.6	1051.7	1041.4	1037.0
107.5°	877.0	979.8	1045.5	1081.9	1098.7	1106.1	1108.0
110°	818.0	924.9	1006.0	1058.3	1089.3	1102.6	1109.2



TEST NUMBER: P332939-830

CATALOG NUMBER: SA4XXRDIP-C795D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	766.2	867.1	948.2	1007.6	1045.1	1063.7	1074.4
115°	706.8	793.0	863.7	922.0	966.2	989.8	995.7
117.5°	672.9	740.6	800.7	850.4	887.5	911.3	916.0
120°	658.2	717.1	769.4	811.4	843.9	863.0	871.1
122.5°	648.7	702.4	748.2	783.7	811.4	827.6	835.8
125°	633.9	684.7	725.2	754.7	776.1	790.0	794.5
127.5°	616.2	666.9	705.5	735.1	754.1	765.9	770.3
130°	602.1	652.2	691.3	721.5	740.0	751.8	756.2
132.5°	586.2	635.2	674.2	703.8	724.6	735.8	740.3
135°	562.3	607.3	644.1	673.6	694.3	706.1	710.5
137.5°	539.5	577.4	610.7	638.2	658.6	668.3	673.6
140°	524.7	557.9	588.9	614.6	630.8	641.2	647.1
142.5°	512.4	540.8	567.6	590.5	605.5	614.6	618.8
145°	495.3	517.4	538.0	556.5	568.9	576.4	580.0
147.5°	480.5	498.2	514.4	528.0	538.8	544.3	545.6
150°	471.6	486.4	499.6	511.5	521.0	525.5	526.2
152.5°	462.8	476.4	487.3	497.3	505.1	507.7	508.5
155°	450.3	461.4	470.2	477.6	483.4	485.7	485.7
157.5°	437.9	447.2	454.3	459.9	464.3	465.6	465.6
160°	429.7	437.8	443.7	448.1	452.5	453.3	453.3
162.5°	422.0	428.4	433.7	436.9	441.3	442.1	441.5
165°	410.5	415.7	419.3	422.3	425.3	424.5	423.8
167.5°	400.8	404.9	407.1	408.6	410.5	410.4	409.7
170°	394.3	397.3	399.4	401.0	401.6	401.0	401.0
172.5°	389.0	390.8	392.4	393.2	394.0	393.2	392.1
175°	381.7	383.2	383.2	383.2	384.7	383.2	381.7
177.5°	377.5	377.5	378.1	377.5	378.1	376.9	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1

(END OF REPORT)