

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: P332320-830

Luminaire Tested: **S123RDIP-S775D1025U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332320-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D1025U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6370.4 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

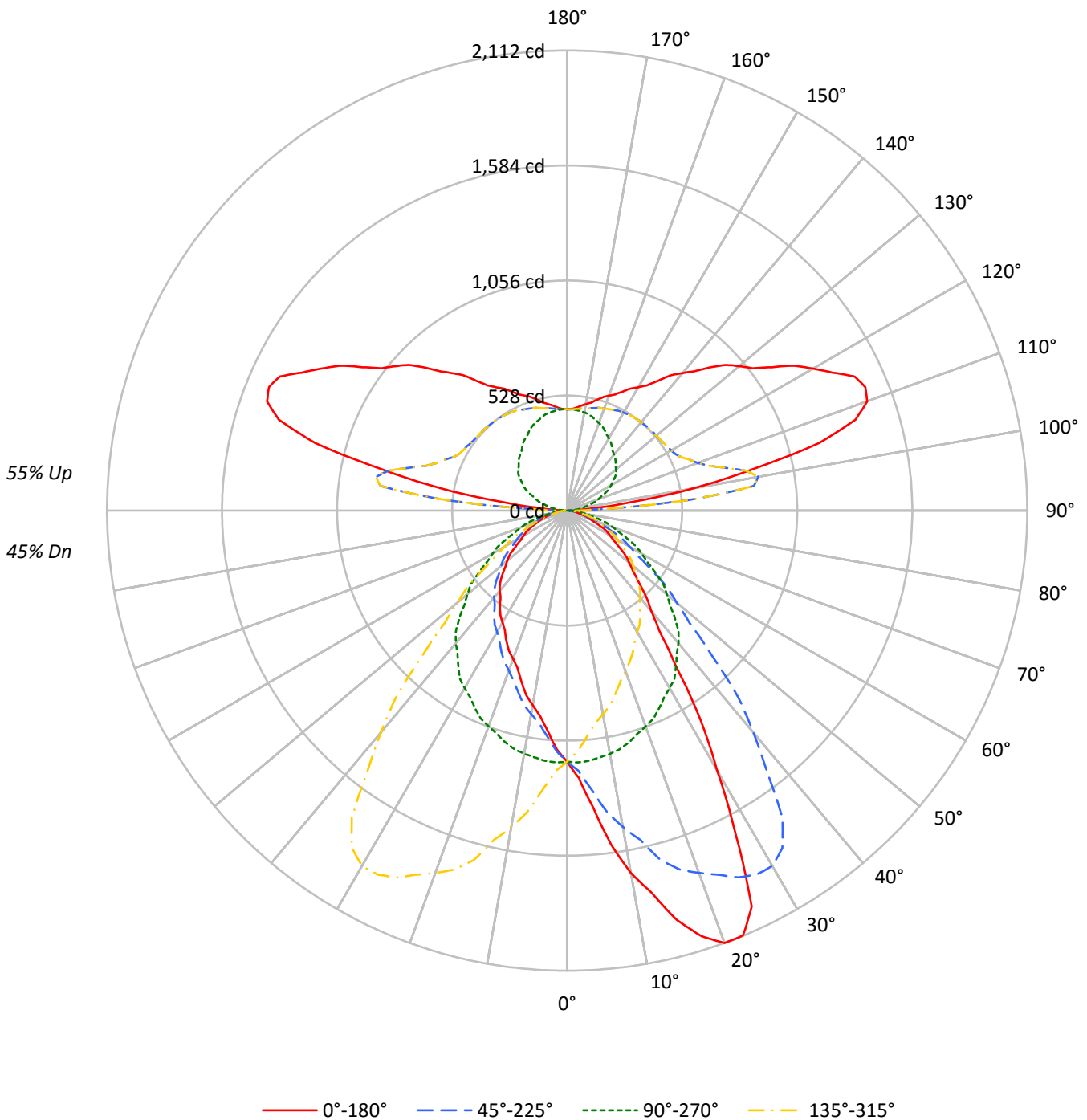
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	86	89	86	82	80	71	69	67	58	57	56	46	45	45	39
2	89	82	76	71	81	75	70	66	63	60	56	52	49	47	41	40	38	34
3	81	72	65	60	74	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29	25
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	30	28	26	22
6	63	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	20	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17	15
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12408	12408	12408	12408
5°	14791	12460	10974	12460
10°	18467	12389	9913	12389
15°	21677	12262	9040	12262
20°	24192	12073	8298	12073
25°	23807	11874	7842	11874
30°	17112	11691	7372	11691
35°	11426	11452	7068	11452
40°	8418	11164	6753	11164
45°	7060	10659	6445	10659
50°	6231	9999	6015	9999
55°	5465	9242	5427	9242
60°	4865	8521	4971	8521
65°	4274	7743	4625	7743
70°	3355	7050	4223	7050
75°	2957	6159	3855	6159
80°	2572	5232	3794	5232
85°	2075	4199	4026	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.8
10°-20°	354.2	5.6
20°-30°	556.4	8.7
30°-40°	580.5	9.1
40°-50°	496.8	7.8
50°-60°	378.6	5.9
60°-70°	242.7	3.8
70°-80°	116.7	1.8
80°-90°	34.5	0.5
90°-100°	258.6	4.1
100°-110°	732.4	11.5
110°-120°	720.5	11.3
120°-130°	574.7	9.0
130°-140°	453.1	7.1
140°-150°	338.2	5.3
150°-160°	235.7	3.7
160°-170°	138.5	2.2
170°-180°	45.1	0.7
0°-30°	1023.9	16.1
0°-40°	1604.4	25.2
0°-60°	2479.8	38.9
0°-90°	2873.7	45.1
90°-120°	1711.5	26.9
90°-150°	3077.4	48.3
90°-180°	3497.0	54.9
0°-180°	6370.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1369	1153	1016	1153	1369	141
15°	1945	1100	811	1100	1945	552
25°	2004	1000	660	1000	2004	862
35°	870	872	538	872	870	570
45°	464	700	423	700	464	365
55°	291	492	289	492	291	263
65°	168	304	182	304	168	165
75°	71	148	93	148	71	76
85°	17	34	33	34	17	20
90°	27	2	27	2	27	15
95°	109	32	109	32	109	197
105°	1197	109	1197	109	1197	1181
115°	1456	193	1456	193	1456	1414
125°	1148	268	1148	268	1148	1040
135°	930	314	930	314	930	722
145°	727	358	727	358	727	463
155°	603	407	603	407	603	281
165°	526	445	526	445	526	150
175°	473	464	473	464	473	46
180°	465	465	465	465	465	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1227.8	1229.4	1224.2	1223.4	1217.5	1215.9	1215.9	1207.6	1202.5	1195.8	1191.8
5°	1368.9	1376.8	1372.8	1364.0	1349.2	1345.7	1336.3	1321.5	1304.8	1284.0	1274.1
7.5°	1545.1	1555.9	1551.8	1538.0	1522.6	1510.0	1483.6	1459.0	1424.6	1394.3	1368.5
10°	1689.6	1678.3	1669.4	1656.0	1641.8	1618.5	1590.9	1552.9	1509.0	1474.5	1436.0
12.5°	1797.8	1795.9	1784.7	1770.9	1750.8	1728.7	1694.8	1648.5	1597.4	1547.6	1503.5
15°	1945.2	1948.2	1940.8	1926.5	1897.9	1858.9	1807.6	1788.3	1715.3	1661.0	1606.8
17.5°	2047.3	2046.7	2045.7	2025.9	1996.7	1969.0	1921.4	1870.8	1804.6	1728.2	1655.0
20°	2112.0	2107.1	2108.1	2085.8	2064.2	2032.1	1985.7	1912.2	1857.9	1769.6	1694.0
22.5°	2110.4	2109.5	2113.3	2105.6	2089.8	2065.3	2028.7	1966.7	1897.4	1808.3	1723.3
25°	2004.5	2000.5	2023.7	2030.1	2055.3	2059.7	2048.9	2014.9	1949.2	1857.4	1752.3
27.5°	1677.6	1675.5	1718.4	1772.4	1840.6	1893.8	1945.0	1969.8	1949.2	1883.5	1778.2
30°	1376.8	1423.1	1444.9	1522.9	1609.7	1713.4	1804.1	1890.5	1911.7	1883.1	1796.7
32.5°	1143.1	1183.6	1201.6	1268.6	1349.5	1470.9	1607.1	1729.4	1815.8	1837.7	1785.6
35°	869.5	870.0	911.4	941.0	1016.1	1140.9	1273.2	1437.0	1599.8	1723.2	1736.0
37.5°	693.8	696.3	721.3	750.8	807.1	873.2	989.6	1125.8	1313.9	1503.3	1614.3
40°	599.1	603.5	622.3	651.4	691.8	741.7	832.5	960.8	1117.7	1328.4	1500.6
42.5°	538.3	545.4	555.2	577.6	602.7	649.3	722.7	821.8	964.5	1163.8	1362.4
45°	463.8	467.8	475.2	485.6	508.3	540.8	590.2	656.8	775.2	935.7	1134.4
47.5°	409.2	407.1	414.9	423.3	438.4	460.6	493.7	548.1	632.5	761.2	929.9
50°	372.1	371.6	377.0	383.4	397.8	414.1	441.2	482.1	549.2	655.8	810.3
52.5°	337.3	339.2	343.1	351.1	361.4	374.6	398.9	428.4	486.1	578.1	706.8
55°	291.2	292.7	298.0	302.5	309.9	323.2	338.6	363.2	402.7	466.8	572.9
57.5°	252.0	251.4	256.6	257.7	266.1	276.9	288.8	307.9	336.6	384.2	455.6
60°	226.0	224.5	228.9	232.4	236.9	245.7	255.6	274.4	297.1	332.1	393.3
62.5°	202.4	201.6	204.9	208.3	212.0	220.1	228.4	242.8	260.7	290.3	338.8
65°	167.8	169.3	170.7	172.2	174.2	179.1	187.0	196.9	209.2	230.0	264.9
67.5°	131.9	133.4	133.8	136.9	141.1	144.2	149.0	157.8	166.4	183.9	203.8
70°	106.6	106.1	106.6	108.1	113.5	118.9	125.4	131.8	137.1	149.5	166.3
72.5°	91.6	90.7	92.0	92.3	94.9	96.4	100.5	106.5	113.5	121.9	133.9
75°	71.1	71.1	71.1	71.1	73.0	74.0	75.5	77.0	79.5	83.4	92.3
77.5°	52.5	52.6	53.3	53.8	54.2	54.8	55.7	57.1	58.1	60.1	64.0
80°	41.5	41.9	41.5	41.9	41.9	42.9	43.5	44.9	45.4	47.9	49.4
82.5°	31.2	30.9	31.2	31.7	31.7	32.7	32.8	33.8	33.9	35.3	36.8
85°	16.8	15.8	16.8	16.3	17.2	16.3	16.8	17.7	17.7	18.3	20.3
87.5°	9.4	10.4	9.4	9.6	9.8	9.8	9.6	9.4	10.1	9.8	9.7
90°	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6	22.6	23.6	20.7
92.5°	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2	109.1	144.7	159.2
95°	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7	452.5	557.9	496.7
97.5°	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3	925.0	864.6	633.0
100°	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3	1076.3	891.0	602.1
102.5°	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3	1083.8	842.1	556.9
105°	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0	1026.4	756.4	501.4
107.5°	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0	926.0	680.8	466.1
110°	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2	862.7	637.9	452.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1	807.8	609.3	445.0
115°	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4	741.4	578.6	442.1
117.5°	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3	701.3	560.5	443.8
120°	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8	680.2	552.2	446.9
122.5°	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0	662.9	547.0	452.1
125°	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0	640.7	540.1	460.1
127.5°	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6	621.1	536.7	469.1
130°	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3	610.6	534.4	475.1
132.5°	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5	600.8	533.7	479.7
135°	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0	588.1	532.5	486.4
137.5°	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9	576.9	530.5	490.9
140°	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3	570.1	529.7	493.9
142.5°	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5	564.1	528.2	496.2
145°	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2	556.0	525.9	497.7
147.5°	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5	548.1	522.4	497.7
150°	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5	542.8	519.3	497.7
152.5°	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2	536.9	515.6	495.4
155°	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8	527.8	509.0	492.9
157.5°	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7	517.6	503.1	489.8
160°	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1	510.9	498.6	488.3
162.5°	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1	504.1	494.1	485.3
165°	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4	494.8	487.4	480.8
167.5°	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2	486.1	480.6	476.3
170°	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5	480.8	476.1	473.3
172.5°	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5	475.5	472.3	471.0
175°	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4	469.5	467.6	467.6
177.5°	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3	465.5	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1190.2	1189.0	1183.6	1177.2	1168.9	1163.4	1159.0	1156.7	1149.6	1140.9	1135.0
5°	1263.8	1249.0	1233.2	1213.9	1196.2	1177.9	1166.6	1153.2	1137.0	1118.7	1105.9
7.5°	1342.6	1313.5	1282.2	1250.0	1218.0	1189.5	1164.2	1142.6	1116.6	1090.4	1072.1
10°	1403.0	1360.5	1316.5	1271.7	1230.7	1192.2	1162.6	1133.5	1102.4	1072.3	1049.6
12.5°	1457.8	1401.9	1351.3	1296.2	1243.8	1197.8	1155.1	1120.9	1083.5	1051.4	1025.5
15°	1527.3	1470.1	1408.8	1324.9	1255.4	1197.1	1145.4	1100.4	1055.1	1015.6	990.4
17.5°	1592.2	1506.1	1423.9	1353.9	1263.5	1190.7	1127.5	1073.7	1024.0	982.1	951.1
20°	1619.1	1535.7	1446.3	1357.1	1268.2	1186.8	1113.2	1054.0	1002.2	954.9	926.2
22.5°	1635.2	1540.8	1446.7	1350.8	1256.4	1171.8	1099.1	1033.9	977.8	932.7	897.4
25°	1654.1	1541.6	1437.9	1343.2	1247.0	1155.2	1068.8	999.8	939.1	891.2	853.7
27.5°	1666.5	1534.2	1411.7	1306.4	1208.8	1117.4	1038.2	965.1	903.4	852.8	812.6
30°	1668.9	1528.2	1391.6	1277.6	1178.4	1094.5	1010.6	940.6	875.4	821.6	784.1
32.5°	1672.1	1513.6	1364.3	1243.2	1141.7	1058.6	982.6	915.7	848.9	796.0	757.7
35°	1659.1	1505.6	1323.0	1183.8	1082.1	1001.7	933.1	871.5	805.9	754.5	715.5
37.5°	1603.0	1473.5	1280.2	1116.9	1010.6	936.1	880.2	826.4	766.3	710.9	674.2
40°	1546.5	1441.9	1247.0	1076.3	965.3	888.7	838.4	794.5	736.2	684.5	645.0
42.5°	1462.4	1398.9	1215.4	1033.6	913.9	840.2	797.8	756.6	705.5	652.9	615.8
45°	1308.2	1316.5	1150.8	965.7	842.8	768.8	728.9	700.2	654.9	611.4	573.4
47.5°	1114.7	1193.2	1074.9	893.3	767.9	698.4	663.5	638.6	607.9	565.3	530.7
50°	988.4	1100.4	1014.1	844.8	721.0	651.9	617.4	597.1	570.4	536.9	503.8
52.5°	871.9	992.3	940.7	790.7	670.1	606.9	573.2	556.5	535.3	503.7	473.8
55°	711.1	833.0	821.1	709.1	593.6	536.9	511.2	492.5	478.2	454.5	430.8
57.5°	575.2	690.8	696.9	618.3	526.3	470.2	448.2	434.0	424.7	406.8	384.9
60°	489.6	595.6	616.3	557.1	478.2	428.9	407.1	395.8	388.3	374.1	357.3
62.5°	418.5	508.8	532.3	489.7	432.0	385.8	368.8	357.9	352.8	340.4	325.6
65°	320.3	395.3	417.9	394.3	364.2	327.2	313.4	304.0	299.5	292.7	281.7
67.5°	240.8	295.5	320.4	303.7	292.8	269.5	260.6	255.6	251.7	246.9	237.9
70°	193.4	233.9	259.6	255.1	246.3	233.9	227.5	224.0	220.1	216.1	208.2
72.5°	155.5	183.4	207.5	209.7	202.5	199.9	194.4	192.8	190.5	185.8	181.4
75°	103.1	122.3	139.1	145.5	148.5	151.0	148.5	148.1	147.5	143.6	141.1
77.5°	67.6	77.9	88.5	99.4	104.2	107.4	108.3	110.1	108.8	106.7	105.5
80°	51.8	54.3	61.6	71.1	78.4	81.4	83.4	84.4	83.9	83.4	81.4
82.5°	37.6	39.7	43.2	49.8	56.0	60.9	62.1	61.9	63.0	63.2	61.6
85°	20.3	20.7	21.7	22.7	26.1	31.6	33.1	34.0	35.1	35.1	32.0
87.5°	9.9	9.0	9.1	8.8	9.6	9.4	11.4	13.0	13.8	12.5	13.1
90°	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9	3.8	5.7	8.5
92.5°	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7	17.3	25.3	32.5
95°	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0	34.8	45.1	61.2
97.5°	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6	55.5	63.6	77.5
100°	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7	70.6	77.2	90.3
102.5°	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4	87.1	92.9	105.4
105°	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1	112.0	117.6	128.9
107.5°	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3	137.1	142.6	153.7
110°	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4	155.2	159.9	170.3



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0	171.8	176.5	186.8
115°	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8	196.6	202.3	211.7
117.5°	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8	221.1	225.8	234.4
120°	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3	236.1	240.8	250.2
122.5°	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6	250.4	255.1	265.3
125°	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2	270.0	275.7	286.0
127.5°	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8	286.5	293.5	304.1
130°	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5	296.3	304.8	316.1
132.5°	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0	304.6	313.9	327.4
135°	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2	318.0	328.4	342.4
137.5°	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7	330.6	340.7	355.8
140°	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0	339.6	349.0	364.1
142.5°	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9	347.9	358.1	371.6
145°	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4	361.3	369.8	383.9
147.5°	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2	374.8	383.1	395.3
150°	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0	383.9	391.3	403.6
152.5°	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7	392.9	400.4	411.1
155°	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4	407.4	413.0	422.4
157.5°	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1	419.8	424.3	432.6
160°	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1	428.1	431.9	439.3
162.5°	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9	434.9	437.9	443.8
165°	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0	444.0	445.9	450.6
167.5°	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7	451.6	452.5	456.1
170°	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2	455.3	456.3	459.1
172.5°	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2	459.1	459.3	461.4
175°	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8	462.9	461.9	463.8
177.5°	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5	464.8	464.0	464.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1133.0	1127.8	1124.4	1116.4	1111.3	1105.8	1100.2	1103.8	1103.4	1103.0	1103.0
5°	1095.0	1083.6	1073.3	1060.0	1051.6	1041.2	1033.3	1032.4	1034.3	1027.4	1023.4
7.5°	1057.3	1041.8	1027.1	1012.4	996.8	984.4	976.6	972.9	967.9	963.7	959.2
10°	1030.9	1012.6	998.2	980.1	963.3	948.5	939.1	932.6	929.2	925.8	919.4
12.5°	1003.6	985.7	967.5	946.9	930.9	913.7	906.7	899.5	892.9	889.0	880.2
15°	963.7	940.6	921.3	899.6	881.8	865.1	855.2	840.8	838.9	834.0	825.1
17.5°	923.8	898.6	872.0	856.0	835.9	818.5	803.4	798.6	784.5	779.2	771.5
20°	892.2	869.0	848.8	827.6	798.4	782.1	770.3	763.9	752.5	745.6	740.6
22.5°	865.0	841.4	817.9	793.2	769.2	750.9	742.3	732.3	726.1	716.4	711.1
25°	826.0	800.4	772.3	745.6	728.4	714.5	700.7	691.8	683.0	678.5	668.6
27.5°	780.9	754.0	727.7	707.6	686.4	672.7	660.2	652.2	641.6	634.1	628.7
30°	756.0	724.4	701.7	683.4	656.3	643.5	634.1	624.2	616.3	608.4	603.0
32.5°	727.2	698.3	676.8	654.2	633.4	619.4	607.3	598.6	591.8	584.4	578.9
35°	681.9	657.8	635.6	612.8	597.6	583.2	569.0	561.6	555.2	548.3	543.3
37.5°	641.1	618.5	597.4	575.9	556.9	545.3	533.8	528.1	519.4	514.8	509.7
40°	615.9	593.6	570.9	550.3	530.5	521.6	511.2	502.8	494.9	491.5	486.1
42.5°	588.2	566.0	546.9	524.5	508.4	496.3	486.7	477.6	471.6	466.7	463.5
45°	547.2	527.5	508.8	486.5	471.3	460.9	450.1	441.7	436.2	432.8	427.3
47.5°	507.5	487.8	468.7	449.3	434.5	422.7	411.9	406.0	398.8	394.5	391.0
50°	478.6	460.9	440.6	422.9	408.1	396.2	387.4	379.9	373.5	368.2	365.7
52.5°	452.2	433.3	415.8	399.3	383.6	370.2	362.1	354.3	349.5	343.3	340.4
55°	408.6	390.3	375.5	359.2	343.9	332.6	322.7	315.8	310.9	304.0	300.0
57.5°	367.6	351.3	333.6	319.4	303.7	294.1	285.9	276.5	270.5	265.1	261.3
60°	340.0	321.2	305.9	292.7	278.8	266.5	259.1	251.7	245.2	239.8	236.4
62.5°	311.2	294.8	280.3	265.8	253.2	242.4	233.8	227.6	222.0	218.5	215.1
65°	266.9	254.1	239.3	227.5	215.7	207.7	200.9	195.4	191.4	189.0	186.1
67.5°	226.3	213.9	201.0	189.3	181.4	175.4	170.9	166.2	164.2	161.1	159.1
70°	199.8	187.0	175.7	166.8	158.9	154.5	151.5	148.1	146.1	142.1	140.2
72.5°	171.1	161.7	153.5	146.3	140.0	135.9	132.1	127.9	124.8	120.4	118.5
75°	134.7	126.3	119.9	115.0	111.0	105.6	100.2	95.8	94.3	92.7	92.3
77.5°	99.8	94.4	89.8	85.7	80.8	76.8	75.6	74.6	74.3	73.5	73.5
80°	78.4	73.5	70.0	65.1	62.2	62.2	62.2	61.2	61.6	61.6	61.6
82.5°	58.3	53.8	51.9	50.1	49.6	50.0	50.0	50.1	49.9	50.6	50.2
85°	30.1	30.6	31.6	31.1	31.6	31.6	32.6	32.0	32.6	31.6	32.6
87.5°	13.1	14.7	15.6	16.6	17.5	17.7	17.9	18.1	18.7	18.9	19.2
90°	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6	24.5	25.4	27.2
92.5°	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2	62.9	55.5	50.6
95°	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7	229.6	179.7	145.8
97.5°	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3	676.3	554.9	442.3
100°	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3	1033.0	922.9	789.4
102.5°	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3	1194.9	1130.7	1046.0
105°	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0	1317.2	1335.0	1310.6
107.5°	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0	1301.7	1384.1	1417.7
110°	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2	1251.3	1369.8	1435.7



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1	1185.1	1317.9	1402.6
115°	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4	1079.1	1217.4	1319.9
117.5°	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3	989.6	1113.7	1217.8
120°	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8	939.9	1052.8	1147.8
122.5°	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0	900.0	1004.7	1092.9
125°	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0	850.6	940.8	1016.1
127.5°	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6	807.0	888.5	957.0
130°	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3	780.0	856.1	920.1
132.5°	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5	754.3	825.3	886.3
135°	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0	717.8	779.0	832.6
137.5°	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9	682.7	735.4	781.8
140°	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3	662.3	707.5	748.0
142.5°	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5	642.8	681.9	717.1
145°	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2	617.2	647.2	674.6
147.5°	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5	598.1	622.5	641.9
150°	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5	586.2	605.9	623.8
152.5°	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2	574.9	592.4	607.2
155°	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8	558.8	573.0	584.3
157.5°	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7	543.2	554.1	563.0
160°	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1	533.5	542.8	549.4
162.5°	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1	522.9	531.6	537.4
165°	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4	508.0	514.6	519.3
167.5°	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2	496.5	500.3	503.7
170°	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5	488.3	492.0	493.9
172.5°	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5	481.5	484.6	485.7
175°	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4	472.3	474.2	474.2
177.5°	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3	467.0	467.8	467.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1098.3	1097.9	1098.3	1096.6	1098.3	1097.9	1098.3	1103.0	1103.0	1103.4	1103.8
5°	1022.0	1021.4	1020.0	1015.6	1020.0	1021.4	1022.0	1023.4	1027.4	1034.3	1032.4
7.5°	955.4	954.7	950.4	950.5	950.4	954.7	955.4	959.2	963.7	967.9	972.9
10°	915.9	916.3	910.5	907.0	910.5	916.3	915.9	919.4	925.8	929.2	932.6
12.5°	877.6	875.3	870.5	866.8	870.5	875.3	877.6	880.2	889.0	892.9	899.5
15°	827.1	822.1	810.3	811.2	810.3	822.1	827.1	825.1	834.0	838.9	840.8
17.5°	767.5	763.9	763.6	756.8	763.6	763.9	767.5	771.5	779.2	784.5	798.6
20°	732.8	730.4	731.3	724.4	731.3	730.4	732.8	740.6	745.6	752.5	763.9
22.5°	705.6	703.1	699.0	696.8	699.0	703.1	705.6	711.1	716.4	726.1	732.3
25°	665.7	661.8	657.8	660.3	657.8	661.8	665.7	668.6	678.5	683.0	691.8
27.5°	625.8	622.8	618.9	618.4	618.9	622.8	625.8	628.7	634.1	641.6	652.2
30°	600.6	597.6	595.6	593.1	595.6	597.6	600.6	603.0	608.4	616.3	624.2
32.5°	574.9	574.3	570.7	570.2	570.7	574.3	574.9	578.9	584.4	591.8	598.6
35°	541.3	538.4	537.3	537.9	537.3	538.4	541.3	543.3	548.3	555.2	561.6
37.5°	509.4	505.5	503.7	502.0	503.7	505.5	509.4	509.7	514.8	519.4	528.1
40°	486.5	482.6	481.6	480.6	481.6	482.6	486.5	486.1	491.5	494.9	502.8
42.5°	460.9	459.3	458.7	456.9	458.7	459.3	460.9	463.5	466.7	471.6	477.6
45°	425.8	425.4	422.4	423.4	422.4	425.4	425.8	427.3	432.8	436.2	441.7
47.5°	389.0	386.8	384.7	386.1	384.7	386.8	389.0	391.0	394.5	398.8	406.0
50°	363.7	362.7	358.3	359.2	358.3	362.7	363.7	365.7	368.2	373.5	379.9
52.5°	338.5	334.7	333.0	332.4	333.0	334.7	338.5	340.4	343.3	349.5	354.3
55°	296.6	292.1	290.1	289.2	290.1	292.1	296.6	300.0	304.0	310.9	315.8
57.5°	255.5	254.3	252.8	253.8	252.8	254.3	255.5	261.3	265.1	270.5	276.5
60°	231.4	231.4	231.4	230.9	231.4	231.4	231.4	236.4	239.8	245.2	251.7
62.5°	212.9	211.7	211.3	212.0	211.3	211.7	212.9	215.1	218.5	222.0	227.6
65°	184.5	184.1	182.1	181.6	182.1	184.1	184.5	186.1	189.0	191.4	195.4
67.5°	157.8	156.0	155.4	154.8	155.4	156.0	157.8	159.1	161.1	164.2	166.2
70°	137.7	136.7	133.7	134.2	133.7	136.7	137.7	140.2	142.1	146.1	148.1
72.5°	115.9	115.0	114.4	113.7	114.4	115.0	115.9	118.5	120.4	124.8	127.9
75°	91.8	91.3	90.8	92.7	90.8	91.3	91.8	92.3	92.7	94.3	95.8
77.5°	73.5	73.5	73.8	73.0	73.8	73.5	73.5	73.5	73.5	74.3	74.6
80°	61.6	61.6	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.2
82.5°	49.5	49.9	50.1	49.4	50.1	49.9	49.5	50.2	50.6	49.9	50.1
85°	32.6	32.0	33.1	32.6	33.1	32.0	32.6	32.6	31.6	32.6	32.0
87.5°	19.9	19.2	19.4	19.7	19.4	19.2	19.9	19.2	18.9	18.7	18.1
90°	26.3	27.2	28.2	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6
92.5°	48.9	46.1	47.0	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2
95°	128.0	119.5	112.9	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7
97.5°	373.0	330.6	305.2	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3
100°	694.4	625.7	589.0	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3
102.5°	972.0	917.7	887.0	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3
105°	1267.2	1231.5	1201.5	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0
107.5°	1418.4	1406.4	1396.2	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0
110°	1462.1	1469.6	1467.7	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1450.8	1474.0	1481.2	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1
115°	1390.5	1431.9	1450.8	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4
117.5°	1291.4	1338.8	1365.9	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3
120°	1222.1	1274.8	1297.4	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8
122.5°	1159.0	1206.4	1231.1	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0
125°	1076.3	1117.7	1141.2	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0
127.5°	1010.6	1046.0	1067.2	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6
130°	970.0	1003.9	1023.6	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3
132.5°	933.1	967.0	984.5	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5
135°	878.7	906.9	923.9	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0
137.5°	820.6	849.2	863.5	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9
140°	783.7	810.0	825.1	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3
142.5°	747.6	770.9	784.5	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5
145°	698.0	717.8	725.4	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2
147.5°	659.7	673.1	680.2	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5
150°	637.9	648.2	653.8	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5
152.5°	618.3	627.9	631.3	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2
155°	592.8	600.2	602.1	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8
157.5°	570.3	576.0	577.5	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7
160°	556.0	561.7	561.7	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1
162.5°	541.8	546.6	546.6	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1
165°	523.1	526.9	525.9	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4
167.5°	505.4	508.0	507.1	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2
170°	494.8	496.7	495.8	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5
172.5°	485.9	487.8	486.1	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5
175°	474.2	475.1	474.2	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4
177.5°	467.0	467.8	466.3	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1100.2	1105.8	1111.3	1116.4	1124.4	1127.8	1133.0	1135.0	1140.9	1149.6	1156.7
5°	1033.3	1041.2	1051.6	1060.0	1073.3	1083.6	1095.0	1105.9	1118.7	1137.0	1153.2
7.5°	976.6	984.4	996.8	1012.4	1027.1	1041.8	1057.3	1072.1	1090.4	1116.6	1142.6
10°	939.1	948.5	963.3	980.1	998.2	1012.6	1030.9	1049.6	1072.3	1102.4	1133.5
12.5°	906.7	913.7	930.9	946.9	967.5	985.7	1003.6	1025.5	1051.4	1083.5	1120.9
15°	855.2	865.1	881.8	899.6	921.3	940.6	963.7	990.4	1015.6	1055.1	1100.4
17.5°	803.4	818.5	835.9	856.0	872.0	898.6	923.8	951.1	982.1	1024.0	1073.7
20°	770.3	782.1	798.4	827.6	848.8	869.0	892.2	926.2	954.9	1002.2	1054.0
22.5°	742.3	750.9	769.2	793.2	817.9	841.4	865.0	897.4	932.7	977.8	1033.9
25°	700.7	714.5	728.4	745.6	772.3	800.4	826.0	853.7	891.2	939.1	999.8
27.5°	660.2	672.7	686.4	707.6	727.7	754.0	780.9	812.6	852.8	903.4	965.1
30°	634.1	643.5	656.3	683.4	701.7	724.4	756.0	784.1	821.6	875.4	940.6
32.5°	607.3	619.4	633.4	654.2	676.8	698.3	727.2	757.7	796.0	848.9	915.7
35°	569.0	583.2	597.6	612.8	635.6	657.8	681.9	715.5	754.5	805.9	871.5
37.5°	533.8	545.3	556.9	575.9	597.4	618.5	641.1	674.2	710.9	766.3	826.4
40°	511.2	521.6	530.5	550.3	570.9	593.6	615.9	645.0	684.5	736.2	794.5
42.5°	486.7	496.3	508.4	524.5	546.9	566.0	588.2	615.8	652.9	705.5	756.6
45°	450.1	460.9	471.3	486.5	508.8	527.5	547.2	573.4	611.4	654.9	700.2
47.5°	411.9	422.7	434.5	449.3	468.7	487.8	507.5	530.7	565.3	607.9	638.6
50°	387.4	396.2	408.1	422.9	440.6	460.9	478.6	503.8	536.9	570.4	597.1
52.5°	362.1	370.2	383.6	399.3	415.8	433.3	452.2	473.8	503.7	535.3	556.5
55°	322.7	332.6	343.9	359.2	375.5	390.3	408.6	430.8	454.5	478.2	492.5
57.5°	285.9	294.1	303.7	319.4	333.6	351.3	367.6	384.9	406.8	424.7	434.0
60°	259.1	266.5	278.8	292.7	305.9	321.2	340.0	357.3	374.1	388.3	395.8
62.5°	233.8	242.4	253.2	265.8	280.3	294.8	311.2	325.6	340.4	352.8	357.9
65°	200.9	207.7	215.7	227.5	239.3	254.1	266.9	281.7	292.7	299.5	304.0
67.5°	170.9	175.4	181.4	189.3	201.0	213.9	226.3	237.9	246.9	251.7	255.6
70°	151.5	154.5	158.9	166.8	175.7	187.0	199.8	208.2	216.1	220.1	224.0
72.5°	132.1	135.9	140.0	146.3	153.5	161.7	171.1	181.4	185.8	190.5	192.8
75°	100.2	105.6	111.0	115.0	119.9	126.3	134.7	141.1	143.6	147.5	148.1
77.5°	75.6	76.8	80.8	85.7	89.8	94.4	99.8	105.5	106.7	108.8	110.1
80°	62.2	62.2	62.2	65.1	70.0	73.5	78.4	81.4	83.4	83.9	84.4
82.5°	50.0	50.0	49.6	50.1	51.9	53.8	58.3	61.6	63.2	63.0	61.9
85°	32.6	31.6	31.6	31.1	31.6	30.6	30.1	32.0	35.1	35.1	34.0
87.5°	17.9	17.7	17.5	16.6	15.6	14.7	13.1	13.1	12.5	13.8	13.0
90°	22.6	23.6	20.7	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9
92.5°	109.1	144.7	159.2	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7
95°	452.5	557.9	496.7	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0
97.5°	925.0	864.6	633.0	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6
100°	1076.3	891.0	602.1	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7
102.5°	1083.8	842.1	556.9	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4
105°	1026.4	756.4	501.4	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1
107.5°	926.0	680.8	466.1	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3
110°	862.7	637.9	452.5	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	807.8	609.3	445.0	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0
115°	741.4	578.6	442.1	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8
117.5°	701.3	560.5	443.8	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8
120°	680.2	552.2	446.9	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3
122.5°	662.9	547.0	452.1	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6
125°	640.7	540.1	460.1	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2
127.5°	621.1	536.7	469.1	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8
130°	610.6	534.4	475.1	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5
132.5°	600.8	533.7	479.7	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0
135°	588.1	532.5	486.4	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2
137.5°	576.9	530.5	490.9	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7
140°	570.1	529.7	493.9	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0
142.5°	564.1	528.2	496.2	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9
145°	556.0	525.9	497.7	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4
147.5°	548.1	522.4	497.7	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2
150°	542.8	519.3	497.7	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0
152.5°	536.9	515.6	495.4	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7
155°	527.8	509.0	492.9	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4
157.5°	517.6	503.1	489.8	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1
160°	510.9	498.6	488.3	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1
162.5°	504.1	494.1	485.3	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9
165°	494.8	487.4	480.8	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0
167.5°	486.1	480.6	476.3	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7
170°	480.8	476.1	473.3	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2
172.5°	475.5	472.3	471.0	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2
175°	469.5	467.6	467.6	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8
177.5°	465.5	464.8	465.5	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332320-830

CATALOG NUMBER: S123RDIP-S775D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1159.0	1163.4	1168.9	1177.2	1183.6	1189.0	1190.2	1191.8	1195.8	1202.5	1207.6
5°	1166.6	1177.9	1196.2	1213.9	1233.2	1249.0	1263.8	1274.1	1284.0	1304.8	1321.5
7.5°	1164.2	1189.5	1218.0	1250.0	1282.2	1313.5	1342.6	1368.5	1394.3	1424.6	1459.0
10°	1162.6	1192.2	1230.7	1271.7	1316.5	1360.5	1403.0	1436.0	1474.5	1509.0	1552.9
12.5°	1155.1	1197.8	1243.8	1296.2	1351.3	1401.9	1457.8	1503.5	1547.6	1597.4	1648.5
15°	1145.4	1197.1	1255.4	1324.9	1408.8	1470.1	1527.3	1606.8	1661.0	1715.3	1788.3
17.5°	1127.5	1190.7	1263.5	1353.9	1423.9	1506.1	1592.2	1655.0	1728.2	1804.6	1870.8
20°	1113.2	1186.8	1268.2	1357.1	1446.3	1535.7	1619.1	1694.0	1769.6	1857.9	1912.2
22.5°	1099.1	1171.8	1256.4	1350.8	1446.7	1540.8	1635.2	1723.3	1808.3	1897.4	1966.7
25°	1068.8	1155.2	1247.0	1343.2	1437.9	1541.6	1654.1	1752.3	1857.4	1949.2	2014.9
27.5°	1038.2	1117.4	1208.8	1306.4	1411.7	1534.2	1666.5	1778.2	1883.5	1949.2	1969.8
30°	1010.6	1094.5	1178.4	1277.6	1391.6	1528.2	1668.9	1796.7	1883.1	1911.7	1890.5
32.5°	982.6	1058.6	1141.7	1243.2	1364.3	1513.6	1672.1	1785.6	1837.7	1815.8	1729.4
35°	933.1	1001.7	1082.1	1183.8	1323.0	1505.6	1659.1	1736.0	1723.2	1599.8	1437.0
37.5°	880.2	936.1	1010.6	1116.9	1280.2	1473.5	1603.0	1614.3	1503.3	1313.9	1125.8
40°	838.4	888.7	965.3	1076.3	1247.0	1441.9	1546.5	1500.6	1328.4	1117.7	960.8
42.5°	797.8	840.2	913.9	1033.6	1215.4	1398.9	1462.4	1362.4	1163.8	964.5	821.8
45°	728.9	768.8	842.8	965.7	1150.8	1316.5	1308.2	1134.4	935.7	775.2	656.8
47.5°	663.5	698.4	767.9	893.3	1074.9	1193.2	1114.7	929.9	761.2	632.5	548.1
50°	617.4	651.9	721.0	844.8	1014.1	1100.4	988.4	810.3	655.8	549.2	482.1
52.5°	573.2	606.9	670.1	790.7	940.7	992.3	871.9	706.8	578.1	486.1	428.4
55°	511.2	536.9	593.6	709.1	821.1	833.0	711.1	572.9	466.8	402.7	363.2
57.5°	448.2	470.2	526.3	618.3	696.9	690.8	575.2	455.6	384.2	336.6	307.9
60°	407.1	428.9	478.2	557.1	616.3	595.6	489.6	393.3	332.1	297.1	274.4
62.5°	368.8	385.8	432.0	489.7	532.3	508.8	418.5	338.8	290.3	260.7	242.8
65°	313.4	327.2	364.2	394.3	417.9	395.3	320.3	264.9	230.0	209.2	196.9
67.5°	260.6	269.5	292.8	303.7	320.4	295.5	240.8	203.8	183.9	166.4	157.8
70°	227.5	233.9	246.3	255.1	259.6	233.9	193.4	166.3	149.5	137.1	131.8
72.5°	194.4	199.9	202.5	209.7	207.5	183.4	155.5	133.9	121.9	113.5	106.5
75°	148.5	151.0	148.5	145.5	139.1	122.3	103.1	92.3	83.4	79.5	77.0
77.5°	108.3	107.4	104.2	99.4	88.5	77.9	67.6	64.0	60.1	58.1	57.1
80°	83.4	81.4	78.4	71.1	61.6	54.3	51.8	49.4	47.9	45.4	44.9
82.5°	62.1	60.9	56.0	49.8	43.2	39.7	37.6	36.8	35.3	33.9	33.8
85°	33.1	31.6	26.1	22.7	21.7	20.7	20.3	20.3	18.3	17.7	17.7
87.5°	11.4	9.4	9.6	8.8	9.1	9.0	9.9	9.7	9.8	10.1	9.4
90°	3.8	5.7	8.5	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6
92.5°	17.3	25.3	32.5	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2
95°	34.8	45.1	61.2	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7
97.5°	55.5	63.6	77.5	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3
100°	70.6	77.2	90.3	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3
102.5°	87.1	92.9	105.4	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3
105°	112.0	117.6	128.9	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0
107.5°	137.1	142.6	153.7	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0
110°	155.2	159.9	170.3	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	176.5	186.8	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1
115°	196.6	202.3	211.7	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4
117.5°	221.1	225.8	234.4	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3
120°	236.1	240.8	250.2	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8
122.5°	250.4	255.1	265.3	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0
125°	270.0	275.7	286.0	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0
127.5°	286.5	293.5	304.1	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6
130°	296.3	304.8	316.1	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3
132.5°	304.6	313.9	327.4	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5
135°	318.0	328.4	342.4	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0
137.5°	330.6	340.7	355.8	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9
140°	339.6	349.0	364.1	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3
142.5°	347.9	358.1	371.6	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5
145°	361.3	369.8	383.9	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2
147.5°	374.8	383.1	395.3	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5
150°	383.9	391.3	403.6	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5
152.5°	392.9	400.4	411.1	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2
155°	407.4	413.0	422.4	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8
157.5°	419.8	424.3	432.6	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7
160°	428.1	431.9	439.3	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1
162.5°	434.9	437.9	443.8	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1
165°	444.0	445.9	450.6	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4
167.5°	451.6	452.5	456.1	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2
170°	455.3	456.3	459.1	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5
172.5°	459.1	459.3	461.4	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5
175°	462.9	461.9	463.8	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4
177.5°	464.8	464.0	464.8	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1215.9	1215.9	1217.5	1223.4	1224.2	1229.4	1227.8
5°	1336.3	1345.7	1349.2	1364.0	1372.8	1376.8	1368.9
7.5°	1483.6	1510.0	1522.6	1538.0	1551.8	1555.9	1545.1
10°	1590.9	1618.5	1641.8	1656.0	1669.4	1678.3	1689.6
12.5°	1694.8	1728.7	1750.8	1770.9	1784.7	1795.9	1797.8
15°	1807.6	1858.9	1897.9	1926.5	1940.8	1948.2	1945.2
17.5°	1921.4	1969.0	1996.7	2025.9	2045.7	2046.7	2047.3
20°	1985.7	2032.1	2064.2	2085.8	2108.1	2107.1	2112.0
22.5°	2028.7	2065.3	2089.8	2105.6	2113.3	2109.5	2110.4
25°	2048.9	2059.7	2055.3	2030.1	2023.7	2000.5	2004.5
27.5°	1945.0	1893.8	1840.6	1772.4	1718.4	1675.5	1677.6
30°	1804.1	1713.4	1609.7	1522.9	1444.9	1423.1	1376.8
32.5°	1607.1	1470.9	1349.5	1268.6	1201.6	1183.6	1143.1
35°	1273.2	1140.9	1016.1	941.0	911.4	870.0	869.5
37.5°	989.6	873.2	807.1	750.8	721.3	696.3	693.8
40°	832.5	741.7	691.8	651.4	622.3	603.5	599.1
42.5°	722.7	649.3	602.7	577.6	555.2	545.4	538.3
45°	590.2	540.8	508.3	485.6	475.2	467.8	463.8
47.5°	493.7	460.6	438.4	423.3	414.9	407.1	409.2
50°	441.2	414.1	397.8	383.4	377.0	371.6	372.1
52.5°	398.9	374.6	361.4	351.1	343.1	339.2	337.3
55°	338.6	323.2	309.9	302.5	298.0	292.7	291.2
57.5°	288.8	276.9	266.1	257.7	256.6	251.4	252.0
60°	255.6	245.7	236.9	232.4	228.9	224.5	226.0
62.5°	228.4	220.1	212.0	208.3	204.9	201.6	202.4
65°	187.0	179.1	174.2	172.2	170.7	169.3	167.8
67.5°	149.0	144.2	141.1	136.9	133.8	133.4	131.9
70°	125.4	118.9	113.5	108.1	106.6	106.1	106.6
72.5°	100.5	96.4	94.9	92.3	92.0	90.7	91.6
75°	75.5	74.0	73.0	71.1	71.1	71.1	71.1
77.5°	55.7	54.8	54.2	53.8	53.3	52.6	52.5
80°	43.5	42.9	41.9	41.9	41.5	41.9	41.5
82.5°	32.8	32.7	31.7	31.7	31.2	30.9	31.2
85°	16.8	16.3	17.2	16.3	16.8	15.8	16.8
87.5°	9.6	9.8	9.8	9.6	9.4	10.4	9.4
90°	24.5	25.4	27.2	26.3	27.2	28.2	27.2
92.5°	62.9	55.5	50.6	48.9	46.1	47.0	45.3
95°	229.6	179.7	145.8	128.0	119.5	112.9	109.1
97.5°	676.3	554.9	442.3	373.0	330.6	305.2	297.1
100°	1033.0	922.9	789.4	694.4	625.7	589.0	589.9
102.5°	1194.9	1130.7	1046.0	972.0	917.7	887.0	865.3
105°	1317.2	1335.0	1310.6	1267.2	1231.5	1201.5	1196.7
107.5°	1301.7	1384.1	1417.7	1418.4	1406.4	1396.2	1387.5
110°	1251.3	1369.8	1435.7	1462.1	1469.6	1467.7	1465.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.1	1317.9	1402.6	1450.8	1474.0	1481.2	1481.6
115°	1079.1	1217.4	1319.9	1390.5	1431.9	1450.8	1455.5
117.5°	989.6	1113.7	1217.8	1291.4	1338.8	1365.9	1372.2
120°	939.9	1052.8	1147.8	1222.1	1274.8	1297.4	1303.1
122.5°	900.0	1004.7	1092.9	1159.0	1206.4	1231.1	1238.3
125°	850.6	940.8	1016.1	1076.3	1117.7	1141.2	1147.8
127.5°	807.0	888.5	957.0	1010.6	1046.0	1067.2	1073.3
130°	780.0	856.1	920.1	970.0	1003.9	1023.6	1031.1
132.5°	754.3	825.3	886.3	933.1	967.0	984.5	989.8
135°	717.8	779.0	832.6	878.7	906.9	923.9	930.5
137.5°	682.7	735.4	781.8	820.6	849.2	863.5	867.8
140°	662.3	707.5	748.0	783.7	810.0	825.1	824.2
142.5°	642.8	681.9	717.1	747.6	770.9	784.5	783.5
145°	617.2	647.2	674.6	698.0	717.8	725.4	727.3
147.5°	598.1	622.5	641.9	659.7	673.1	680.2	681.0
150°	586.2	605.9	623.8	637.9	648.2	653.8	653.8
152.5°	574.9	592.4	607.2	618.3	627.9	631.3	631.3
155°	558.8	573.0	584.3	592.8	600.2	602.1	603.0
157.5°	543.2	554.1	563.0	570.3	576.0	577.5	577.3
160°	533.5	542.8	549.4	556.0	561.7	561.7	560.7
162.5°	522.9	531.6	537.4	541.8	546.6	546.6	545.6
165°	508.0	514.6	519.3	523.1	526.9	525.9	525.9
167.5°	496.5	500.3	503.7	505.4	508.0	507.1	507.1
170°	488.3	492.0	493.9	494.8	496.7	495.8	495.8
172.5°	481.5	484.6	485.7	485.9	487.8	486.1	485.3
175°	472.3	474.2	474.2	474.2	475.1	474.2	473.3
177.5°	467.0	467.8	467.8	467.0	467.8	466.3	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)