

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: P332368-930

Luminaire Tested: **S123RDIP-S1165D585U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332368-930
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-S1165D585U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5457.2 lumens
Efficiency: N/A
Efficacy: 99.0 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: Semi-Direct

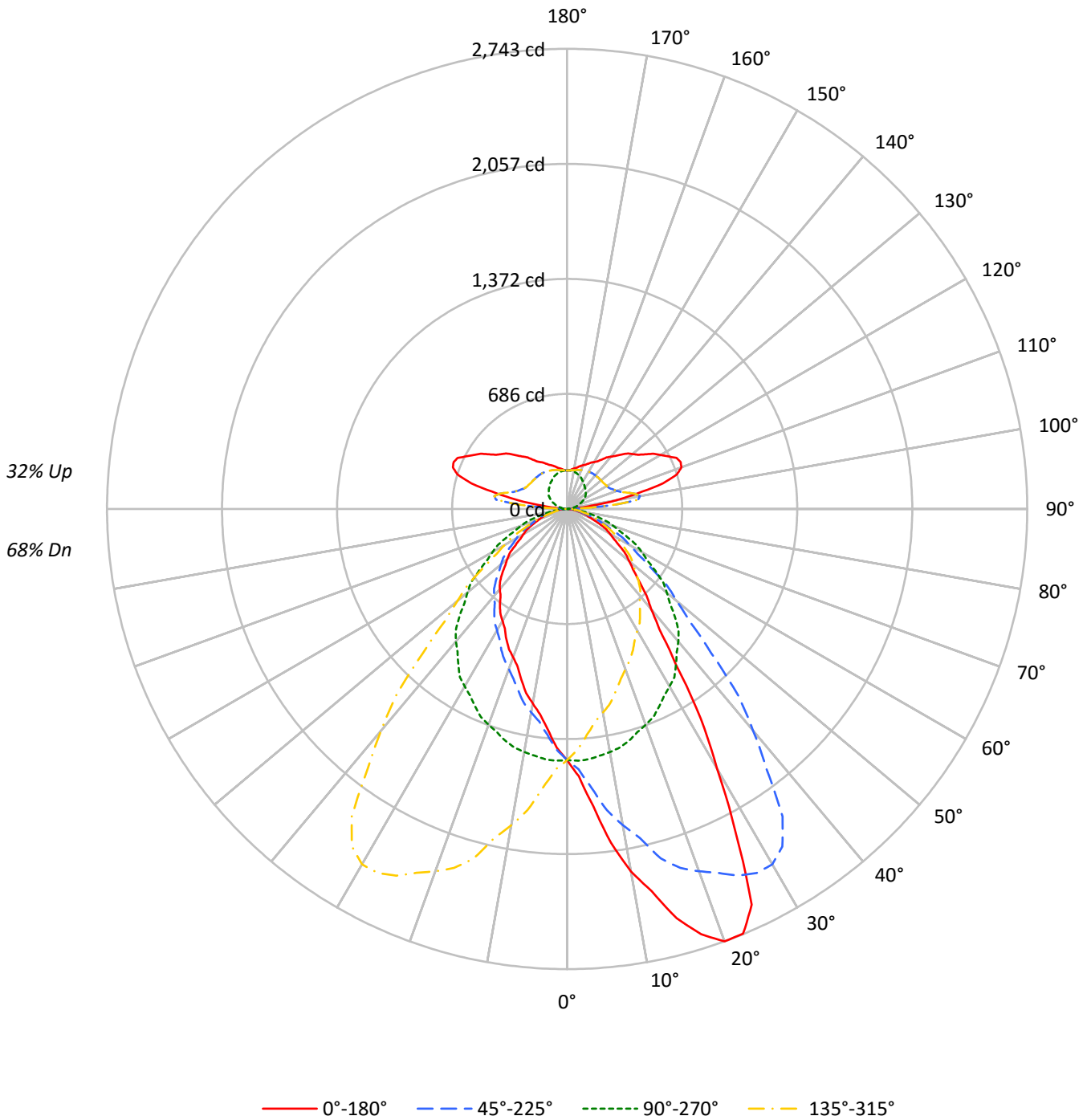
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	103	99	95	92	97	93	90	87	83	81	79	74	72	71	66	64	63	59
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	54	51
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44
4	80	69	61	55	75	66	59	53	59	54	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	52	46	53	48	43	48	43	40	43	40	37	34
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33	30
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	36	32	29	27
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	2.7
10°-20°	459.9	8.4
20°-30°	722.5	13.2
30°-40°	753.8	13.8
40°-50°	645.1	11.8
50°-60°	491.7	9.0
60°-70°	315.1	5.8
70°-80°	151.6	2.8
80°-90°	41.9	0.8
90°-100°	127.8	2.3
100°-110°	362.0	6.6
110°-120°	356.1	6.5
120°-130°	284.0	5.2
130°-140°	224.0	4.1
140°-150°	167.1	3.1
150°-160°	116.5	2.1
160°-170°	68.4	1.3
170°-180°	22.3	0.4
0°-30°	1329.6	24.4
0°-40°	2083.4	38.2
0°-60°	3220.2	59.0
0°-90°	3728.8	68.3
90°-120°	846.0	15.5
90°-150°	1521.1	27.9
90°-180°	1728.0	31.7
0°-180°	5457.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	25
90°	14	1	14	1	14	8
95°	54	16	54	16	54	97
105°	592	54	592	54	592	584
115°	719	95	719	95	719	699
125°	567	133	567	133	567	514
135°	460	155	460	155	460	357
145°	360	177	360	177	360	229
155°	298	201	298	201	298	139
165°	260	220	260	220	260	74
175°	234	229	234	229	234	23
180°	230	230	230	230	230	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	7.8	9.0	7.8	8.2	8.3	8.6	8.6	8.5	9.4	9.0	9.2
90°	13.5	13.9	13.5	13.0	13.5	12.6	12.1	11.7	11.2	11.7	10.2
92.5°	22.4	23.2	22.7	24.2	25.0	27.5	31.1	39.1	54.0	71.5	78.7
95°	54.0	55.8	59.0	63.3	72.1	88.8	113.5	167.4	223.6	275.7	245.6
97.5°	146.8	150.8	163.4	184.3	218.7	274.3	334.3	417.4	457.2	427.4	312.8
100°	291.6	291.1	309.2	343.2	390.1	456.2	510.6	548.3	532.0	440.3	297.6
102.5°	427.7	438.4	453.6	480.5	517.0	558.9	590.6	591.8	535.7	416.2	275.3
105°	591.5	593.9	608.7	626.4	647.8	659.9	651.0	604.5	507.4	373.9	247.9
107.5°	685.8	690.1	695.1	701.1	700.7	684.1	643.4	567.9	457.7	336.5	230.4
110°	724.5	725.5	726.4	722.7	709.6	677.1	618.5	532.9	426.4	315.3	223.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	732.3	732.1	728.6	717.1	693.2	651.4	585.7	498.3	399.3	301.2	220.0
115°	719.4	717.1	707.8	687.3	652.4	601.8	533.4	452.5	366.5	286.0	218.6
117.5°	678.2	675.1	661.7	638.3	601.9	550.5	489.1	419.2	346.7	277.0	219.4
120°	644.1	641.2	630.1	604.1	567.4	520.3	464.6	401.8	336.2	273.0	220.9
122.5°	612.0	608.5	596.2	572.8	540.1	496.5	444.8	388.0	327.7	270.4	223.5
125°	567.4	564.1	552.4	532.0	502.2	465.0	420.4	369.7	316.7	266.9	227.4
127.5°	530.5	527.5	517.0	499.5	473.0	439.2	398.9	353.7	307.0	265.2	231.9
130°	509.6	506.0	496.2	479.5	454.8	423.1	385.5	343.6	301.8	264.2	234.8
132.5°	489.2	486.6	477.9	461.2	438.1	407.9	372.8	334.4	296.9	263.7	237.1
135°	459.9	456.6	448.3	434.3	411.6	385.1	354.8	321.8	290.7	263.2	240.4
137.5°	428.9	426.8	419.7	405.6	386.5	363.5	337.5	310.4	285.2	262.2	242.6
140°	407.3	407.8	400.4	387.3	369.7	349.7	327.3	303.7	281.8	261.8	244.1
142.5°	387.3	387.8	381.1	369.5	354.4	337.0	317.7	297.3	278.8	261.1	245.2
145°	359.5	358.6	354.8	345.0	333.5	319.9	305.1	289.7	274.8	259.9	246.0
147.5°	336.6	336.2	332.6	326.0	317.2	307.7	295.6	283.5	270.9	258.2	246.0
150°	323.2	323.2	320.4	315.3	308.3	299.5	289.7	279.0	268.3	256.7	246.0
152.5°	312.0	312.0	310.4	305.6	300.1	292.8	284.1	274.9	265.4	254.9	244.9
155°	298.1	297.6	296.7	292.9	288.8	283.2	276.2	268.8	260.9	251.6	243.7
157.5°	285.4	285.4	284.7	281.9	278.3	273.9	268.5	262.3	255.8	248.7	242.1
160°	277.1	277.6	277.6	274.8	271.6	268.3	263.7	258.5	252.5	246.5	241.3
162.5°	269.7	270.2	270.2	267.7	265.6	262.8	258.4	254.1	249.2	244.3	239.9
165°	259.9	259.9	260.4	258.5	256.7	254.4	251.1	248.3	244.6	240.9	237.7
167.5°	250.6	250.6	251.1	249.8	249.0	247.3	245.4	243.3	240.3	237.5	235.4
170°	245.1	245.1	245.6	244.6	244.1	243.2	241.3	239.9	237.7	235.3	233.9
172.5°	239.9	240.3	241.1	240.1	240.0	239.5	238.0	237.0	235.1	233.4	232.8
175°	233.9	234.4	234.8	234.4	234.4	234.4	233.4	233.0	232.0	231.1	231.1
177.5°	230.5	230.5	231.2	230.8	231.2	231.2	230.8	230.5	230.1	229.8	230.1
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	9.9	9.2	9.9	9.7	11.1	11.3	14.2	16.6	17.3	15.4	15.7
90°	8.8	7.4	6.0	5.1	4.2	2.8	1.9	0.9	1.9	2.8	4.2
92.5°	59.0	39.1	26.9	20.0	16.1	12.5	8.6	5.8	8.6	12.5	16.1
95°	169.3	100.0	60.4	42.3	30.2	22.3	17.2	15.8	17.2	22.3	30.2
97.5°	185.7	107.6	69.9	50.2	38.3	31.5	27.5	27.0	27.5	31.5	38.3
100°	175.3	106.5	73.9	55.8	44.7	38.2	34.9	34.4	34.9	38.2	44.7
102.5°	166.4	107.9	78.8	62.1	52.1	46.0	43.0	42.2	43.0	46.0	52.1
105°	160.0	112.1	87.0	72.6	63.7	58.1	55.4	54.0	55.4	58.1	63.7
107.5°	159.5	119.7	97.7	84.3	76.0	70.5	67.8	66.4	67.8	70.5	76.0
110°	161.3	126.0	105.1	92.0	84.1	79.1	76.7	75.3	76.7	79.1	84.1



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	165.1	132.3	112.9	100.3	92.4	87.2	85.0	83.5	85.0	87.2	92.4
115°	171.1	142.8	125.1	112.5	104.6	100.0	97.2	95.3	97.2	100.0	104.6
117.5°	179.1	153.8	136.3	124.7	115.9	111.6	109.3	107.1	109.3	111.6	115.9
120°	185.1	160.9	144.1	132.6	123.7	119.0	116.8	115.4	116.8	119.0	123.7
122.5°	190.7	168.4	152.0	139.6	131.1	126.1	123.8	122.4	123.8	126.1	131.1
125°	199.5	179.0	162.7	150.2	141.4	136.2	133.5	132.6	133.5	136.2	141.4
127.5°	206.8	188.3	172.6	160.0	150.3	145.1	141.6	140.2	141.6	145.1	150.3
130°	211.6	193.9	178.6	166.0	156.2	150.7	146.5	145.1	146.5	150.7	156.2
132.5°	216.1	198.8	183.8	171.6	161.8	155.2	150.6	148.8	150.6	155.2	161.8
135°	221.8	206.0	191.6	179.0	169.3	162.3	157.2	155.3	157.2	162.3	169.3
137.5°	226.1	211.0	197.1	185.6	175.9	168.4	163.4	161.4	163.4	168.4	175.9
140°	228.4	214.3	200.9	189.2	179.9	172.5	167.9	165.6	167.9	172.5	179.9
142.5°	230.6	217.0	203.9	193.0	183.7	177.0	171.9	170.0	171.9	177.0	183.7
145°	233.0	220.5	208.3	197.6	189.7	182.8	178.6	177.2	178.6	182.8	189.7
147.5°	234.5	223.2	212.1	203.0	195.4	189.4	185.2	184.4	185.2	189.4	195.4
150°	234.8	225.1	214.3	206.0	199.5	193.5	189.7	189.2	189.7	193.5	199.5
152.5°	235.6	226.2	217.0	209.0	203.3	198.0	194.2	194.1	194.2	198.0	203.3
155°	235.8	228.4	220.5	213.9	208.8	204.2	201.4	201.4	201.4	204.2	208.8
157.5°	236.3	229.5	223.2	218.2	213.9	209.7	207.5	207.1	207.5	209.7	213.9
160°	236.3	230.6	225.1	220.5	217.2	213.4	211.6	211.6	211.6	213.4	217.2
162.5°	235.9	231.1	226.2	222.3	219.4	216.5	214.9	214.9	214.9	216.5	219.4
165°	234.8	231.5	227.9	224.6	222.7	220.5	219.5	220.0	219.5	220.5	222.7
167.5°	234.1	231.5	228.8	226.7	225.4	223.6	223.2	223.8	223.2	223.6	225.4
170°	233.0	231.1	228.8	227.9	226.9	225.5	225.1	226.0	225.1	225.5	226.9
172.5°	232.6	231.1	229.2	228.6	228.0	227.1	226.9	227.5	226.9	227.1	228.0
175°	231.5	230.6	229.8	229.3	229.3	228.4	228.8	229.3	228.8	228.4	229.3
177.5°	230.8	230.1	229.8	229.8	229.8	229.3	229.8	230.1	229.8	229.3	229.8
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	15.4	17.1	17.9	18.7	19.5	19.2	19.6	19.7	20.4	20.5	20.6
90°	5.1	6.0	7.4	8.8	10.2	11.7	11.2	11.7	12.1	12.6	13.5
92.5°	20.0	26.9	39.1	59.0	78.7	71.5	54.0	39.1	31.1	27.5	25.0
95°	42.3	60.4	100.0	169.3	245.6	275.7	223.6	167.4	113.5	88.8	72.1
97.5°	50.2	69.9	107.6	185.7	312.8	427.4	457.2	417.4	334.3	274.3	218.7
100°	55.8	73.9	106.5	175.3	297.6	440.3	532.0	548.3	510.6	456.2	390.1
102.5°	62.1	78.8	107.9	166.4	275.3	416.2	535.7	591.8	590.6	558.9	517.0
105°	72.6	87.0	112.1	160.0	247.9	373.9	507.4	604.5	651.0	659.9	647.8
107.5°	84.3	97.7	119.7	159.5	230.4	336.5	457.7	567.9	643.4	684.1	700.7
110°	92.0	105.1	126.0	161.3	223.6	315.3	426.4	532.9	618.5	677.1	709.6



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	100.3	112.9	132.3	165.1	220.0	301.2	399.3	498.3	585.7	651.4	693.2
115°	112.5	125.1	142.8	171.1	218.6	286.0	366.5	452.5	533.4	601.8	652.4
117.5°	124.7	136.3	153.8	179.1	219.4	277.0	346.7	419.2	489.1	550.5	601.9
120°	132.6	144.1	160.9	185.1	220.9	273.0	336.2	401.8	464.6	520.3	567.4
122.5°	139.6	152.0	168.4	190.7	223.5	270.4	327.7	388.0	444.8	496.5	540.1
125°	150.2	162.7	179.0	199.5	227.4	266.9	316.7	369.7	420.4	465.0	502.2
127.5°	160.0	172.6	188.3	206.8	231.9	265.2	307.0	353.7	398.9	439.2	473.0
130°	166.0	178.6	193.9	211.6	234.8	264.2	301.8	343.6	385.5	423.1	454.8
132.5°	171.6	183.8	198.8	216.1	237.1	263.7	296.9	334.4	372.8	407.9	438.1
135°	179.0	191.6	206.0	221.8	240.4	263.2	290.7	321.8	354.8	385.1	411.6
137.5°	185.6	197.1	211.0	226.1	242.6	262.2	285.2	310.4	337.5	363.5	386.5
140°	189.2	200.9	214.3	228.4	244.1	261.8	281.8	303.7	327.3	349.7	369.7
142.5°	193.0	203.9	217.0	230.6	245.2	261.1	278.8	297.3	317.7	337.0	354.4
145°	197.6	208.3	220.5	233.0	246.0	259.9	274.8	289.7	305.1	319.9	333.5
147.5°	203.0	212.1	223.2	234.5	246.0	258.2	270.9	283.5	295.6	307.7	317.2
150°	206.0	214.3	225.1	234.8	246.0	256.7	268.3	279.0	289.7	299.5	308.3
152.5°	209.0	217.0	226.2	235.6	244.9	254.9	265.4	274.9	284.1	292.8	300.1
155°	213.9	220.5	228.4	235.8	243.7	251.6	260.9	268.8	276.2	283.2	288.8
157.5°	218.2	223.2	229.5	236.3	242.1	248.7	255.8	262.3	268.5	273.9	278.3
160°	220.5	225.1	230.6	236.3	241.3	246.5	252.5	258.5	263.7	268.3	271.6
162.5°	222.3	226.2	231.1	235.9	239.9	244.3	249.2	254.1	258.4	262.8	265.6
165°	224.6	227.9	231.5	234.8	237.7	240.9	244.6	248.3	251.1	254.4	256.7
167.5°	226.7	228.8	231.5	234.1	235.4	237.5	240.3	243.3	245.4	247.3	249.0
170°	227.9	228.8	231.1	233.0	233.9	235.3	237.7	239.9	241.3	243.2	244.1
172.5°	228.6	229.2	231.1	232.6	232.8	233.4	235.1	237.0	238.0	239.5	240.0
175°	229.3	229.8	230.6	231.5	231.1	231.1	232.0	233.0	233.4	234.4	234.4
177.5°	229.8	229.8	230.1	230.8	230.1	229.8	230.1	230.5	230.8	231.2	231.2
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	21.6	20.6	20.7	21.1	20.7	20.6	21.6	20.6	20.5	20.4	19.7
90°	13.0	13.5	13.9	13.5	13.9	13.5	13.0	13.5	12.6	12.1	11.7
92.5°	24.2	22.7	23.2	22.4	23.2	22.7	24.2	25.0	27.5	31.1	39.1
95°	63.3	59.0	55.8	54.0	55.8	59.0	63.3	72.1	88.8	113.5	167.4
97.5°	184.3	163.4	150.8	146.8	150.8	163.4	184.3	218.7	274.3	334.3	417.4
100°	343.2	309.2	291.1	291.6	291.1	309.2	343.2	390.1	456.2	510.6	548.3
102.5°	480.5	453.6	438.4	427.7	438.4	453.6	480.5	517.0	558.9	590.6	591.8
105°	626.4	608.7	593.9	591.5	593.9	608.7	626.4	647.8	659.9	651.0	604.5
107.5°	701.1	695.1	690.1	685.8	690.1	695.1	701.1	700.7	684.1	643.4	567.9
110°	722.7	726.4	725.5	724.5	725.5	726.4	722.7	709.6	677.1	618.5	532.9



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	717.1	728.6	732.1	732.3	732.1	728.6	717.1	693.2	651.4	585.7	498.3
115°	687.3	707.8	717.1	719.4	717.1	707.8	687.3	652.4	601.8	533.4	452.5
117.5°	638.3	661.7	675.1	678.2	675.1	661.7	638.3	601.9	550.5	489.1	419.2
120°	604.1	630.1	641.2	644.1	641.2	630.1	604.1	567.4	520.3	464.6	401.8
122.5°	572.8	596.2	608.5	612.0	608.5	596.2	572.8	540.1	496.5	444.8	388.0
125°	532.0	552.4	564.1	567.4	564.1	552.4	532.0	502.2	465.0	420.4	369.7
127.5°	499.5	517.0	527.5	530.5	527.5	517.0	499.5	473.0	439.2	398.9	353.7
130°	479.5	496.2	506.0	509.6	506.0	496.2	479.5	454.8	423.1	385.5	343.6
132.5°	461.2	477.9	486.6	489.2	486.6	477.9	461.2	438.1	407.9	372.8	334.4
135°	434.3	448.3	456.6	459.9	456.6	448.3	434.3	411.6	385.1	354.8	321.8
137.5°	405.6	419.7	426.8	428.9	426.8	419.7	405.6	386.5	363.5	337.5	310.4
140°	387.3	400.4	407.8	407.3	407.8	400.4	387.3	369.7	349.7	327.3	303.7
142.5°	369.5	381.1	387.8	387.3	387.8	381.1	369.5	354.4	337.0	317.7	297.3
145°	345.0	354.8	358.6	359.5	358.6	354.8	345.0	333.5	319.9	305.1	289.7
147.5°	326.0	332.6	336.2	336.6	336.2	332.6	326.0	317.2	307.7	295.6	283.5
150°	315.3	320.4	323.2	323.2	323.2	320.4	315.3	308.3	299.5	289.7	279.0
152.5°	305.6	310.4	312.0	312.0	312.0	310.4	305.6	300.1	292.8	284.1	274.9
155°	292.9	296.7	297.6	298.1	297.6	296.7	292.9	288.8	283.2	276.2	268.8
157.5°	281.9	284.7	285.4	285.4	285.4	284.7	281.9	278.3	273.9	268.5	262.3
160°	274.8	277.6	277.6	277.1	277.6	277.6	274.8	271.6	268.3	263.7	258.5
162.5°	267.7	270.2	270.2	269.7	270.2	270.2	267.7	265.6	262.8	258.4	254.1
165°	258.5	260.4	259.9	259.9	259.9	260.4	258.5	256.7	254.4	251.1	248.3
167.5°	249.8	251.1	250.6	250.6	250.6	251.1	249.8	249.0	247.3	245.4	243.3
170°	244.6	245.6	245.1	245.1	245.1	245.6	244.6	244.1	243.2	241.3	239.9
172.5°	240.1	241.1	240.3	239.9	240.3	241.1	240.1	240.0	239.5	238.0	237.0
175°	234.4	234.8	234.4	233.9	234.4	234.8	234.4	234.4	234.4	233.4	233.0
177.5°	230.8	231.2	230.5	230.5	230.5	231.2	230.8	231.2	231.2	230.8	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	19.6	19.2	19.5	18.7	17.9	17.1	15.4	15.7	15.4	17.3	16.6
90°	11.2	11.7	10.2	8.8	7.4	6.0	5.1	4.2	2.8	1.9	0.9
92.5°	54.0	71.5	78.7	59.0	39.1	26.9	20.0	16.1	12.5	8.6	5.8
95°	223.6	275.7	245.6	169.3	100.0	60.4	42.3	30.2	22.3	17.2	15.8
97.5°	457.2	427.4	312.8	185.7	107.6	69.9	50.2	38.3	31.5	27.5	27.0
100°	532.0	440.3	297.6	175.3	106.5	73.9	55.8	44.7	38.2	34.9	34.4
102.5°	535.7	416.2	275.3	166.4	107.9	78.8	62.1	52.1	46.0	43.0	42.2
105°	507.4	373.9	247.9	160.0	112.1	87.0	72.6	63.7	58.1	55.4	54.0
107.5°	457.7	336.5	230.4	159.5	119.7	97.7	84.3	76.0	70.5	67.8	66.4
110°	426.4	315.3	223.6	161.3	126.0	105.1	92.0	84.1	79.1	76.7	75.3



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	399.3	301.2	220.0	165.1	132.3	112.9	100.3	92.4	87.2	85.0	83.5
115°	366.5	286.0	218.6	171.1	142.8	125.1	112.5	104.6	100.0	97.2	95.3
117.5°	346.7	277.0	219.4	179.1	153.8	136.3	124.7	115.9	111.6	109.3	107.1
120°	336.2	273.0	220.9	185.1	160.9	144.1	132.6	123.7	119.0	116.8	115.4
122.5°	327.7	270.4	223.5	190.7	168.4	152.0	139.6	131.1	126.1	123.8	122.4
125°	316.7	266.9	227.4	199.5	179.0	162.7	150.2	141.4	136.2	133.5	132.6
127.5°	307.0	265.2	231.9	206.8	188.3	172.6	160.0	150.3	145.1	141.6	140.2
130°	301.8	264.2	234.8	211.6	193.9	178.6	166.0	156.2	150.7	146.5	145.1
132.5°	296.9	263.7	237.1	216.1	198.8	183.8	171.6	161.8	155.2	150.6	148.8
135°	290.7	263.2	240.4	221.8	206.0	191.6	179.0	169.3	162.3	157.2	155.3
137.5°	285.2	262.2	242.6	226.1	211.0	197.1	185.6	175.9	168.4	163.4	161.4
140°	281.8	261.8	244.1	228.4	214.3	200.9	189.2	179.9	172.5	167.9	165.6
142.5°	278.8	261.1	245.2	230.6	217.0	203.9	193.0	183.7	177.0	171.9	170.0
145°	274.8	259.9	246.0	233.0	220.5	208.3	197.6	189.7	182.8	178.6	177.2
147.5°	270.9	258.2	246.0	234.5	223.2	212.1	203.0	195.4	189.4	185.2	184.4
150°	268.3	256.7	246.0	234.8	225.1	214.3	206.0	199.5	193.5	189.7	189.2
152.5°	265.4	254.9	244.9	235.6	226.2	217.0	209.0	203.3	198.0	194.2	194.1
155°	260.9	251.6	243.7	235.8	228.4	220.5	213.9	208.8	204.2	201.4	201.4
157.5°	255.8	248.7	242.1	236.3	229.5	223.2	218.2	213.9	209.7	207.5	207.1
160°	252.5	246.5	241.3	236.3	230.6	225.1	220.5	217.2	213.4	211.6	211.6
162.5°	249.2	244.3	239.9	235.9	231.1	226.2	222.3	219.4	216.5	214.9	214.9
165°	244.6	240.9	237.7	234.8	231.5	227.9	224.6	222.7	220.5	219.5	220.0
167.5°	240.3	237.5	235.4	234.1	231.5	228.8	226.7	225.4	223.6	223.2	223.8
170°	237.7	235.3	233.9	233.0	231.1	228.8	227.9	226.9	225.5	225.1	226.0
172.5°	235.1	233.4	232.8	232.6	231.1	229.2	228.6	228.0	227.1	226.9	227.5
175°	232.0	231.1	231.1	231.5	230.6	229.8	229.3	229.3	228.4	228.8	229.3
177.5°	230.1	229.8	230.1	230.8	230.1	229.8	229.8	229.8	229.3	229.8	230.1
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P332368-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.2	11.3	11.1	9.7	9.9	9.2	9.9	9.2	9.0	9.4	8.5
90°	1.9	2.8	4.2	5.1	6.0	7.4	8.8	10.2	11.7	11.2	11.7
92.5°	8.6	12.5	16.1	20.0	26.9	39.1	59.0	78.7	71.5	54.0	39.1
95°	17.2	22.3	30.2	42.3	60.4	100.0	169.3	245.6	275.7	223.6	167.4
97.5°	27.5	31.5	38.3	50.2	69.9	107.6	185.7	312.8	427.4	457.2	417.4
100°	34.9	38.2	44.7	55.8	73.9	106.5	175.3	297.6	440.3	532.0	548.3
102.5°	43.0	46.0	52.1	62.1	78.8	107.9	166.4	275.3	416.2	535.7	591.8
105°	55.4	58.1	63.7	72.6	87.0	112.1	160.0	247.9	373.9	507.4	604.5
107.5°	67.8	70.5	76.0	84.3	97.7	119.7	159.5	230.4	336.5	457.7	567.9
110°	76.7	79.1	84.1	92.0	105.1	126.0	161.3	223.6	315.3	426.4	532.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	85.0	87.2	92.4	100.3	112.9	132.3	165.1	220.0	301.2	399.3	498.3
115°	97.2	100.0	104.6	112.5	125.1	142.8	171.1	218.6	286.0	366.5	452.5
117.5°	109.3	111.6	115.9	124.7	136.3	153.8	179.1	219.4	277.0	346.7	419.2
120°	116.8	119.0	123.7	132.6	144.1	160.9	185.1	220.9	273.0	336.2	401.8
122.5°	123.8	126.1	131.1	139.6	152.0	168.4	190.7	223.5	270.4	327.7	388.0
125°	133.5	136.2	141.4	150.2	162.7	179.0	199.5	227.4	266.9	316.7	369.7
127.5°	141.6	145.1	150.3	160.0	172.6	188.3	206.8	231.9	265.2	307.0	353.7
130°	146.5	150.7	156.2	166.0	178.6	193.9	211.6	234.8	264.2	301.8	343.6
132.5°	150.6	155.2	161.8	171.6	183.8	198.8	216.1	237.1	263.7	296.9	334.4
135°	157.2	162.3	169.3	179.0	191.6	206.0	221.8	240.4	263.2	290.7	321.8
137.5°	163.4	168.4	175.9	185.6	197.1	211.0	226.1	242.6	262.2	285.2	310.4
140°	167.9	172.5	179.9	189.2	200.9	214.3	228.4	244.1	261.8	281.8	303.7
142.5°	171.9	177.0	183.7	193.0	203.9	217.0	230.6	245.2	261.1	278.8	297.3
145°	178.6	182.8	189.7	197.6	208.3	220.5	233.0	246.0	259.9	274.8	289.7
147.5°	185.2	189.4	195.4	203.0	212.1	223.2	234.5	246.0	258.2	270.9	283.5
150°	189.7	193.5	199.5	206.0	214.3	225.1	234.8	246.0	256.7	268.3	279.0
152.5°	194.2	198.0	203.3	209.0	217.0	226.2	235.6	244.9	254.9	265.4	274.9
155°	201.4	204.2	208.8	213.9	220.5	228.4	235.8	243.7	251.6	260.9	268.8
157.5°	207.5	209.7	213.9	218.2	223.2	229.5	236.3	242.1	248.7	255.8	262.3
160°	211.6	213.4	217.2	220.5	225.1	230.6	236.3	241.3	246.5	252.5	258.5
162.5°	214.9	216.5	219.4	222.3	226.2	231.1	235.9	239.9	244.3	249.2	254.1
165°	219.5	220.5	222.7	224.6	227.9	231.5	234.8	237.7	240.9	244.6	248.3
167.5°	223.2	223.6	225.4	226.7	228.8	231.5	234.1	235.4	237.5	240.3	243.3
170°	225.1	225.5	226.9	227.9	228.8	231.1	233.0	233.9	235.3	237.7	239.9
172.5°	226.9	227.1	228.0	228.6	229.2	231.1	232.6	232.8	233.4	235.1	237.0
175°	228.8	228.4	229.3	229.3	229.8	230.6	231.5	231.1	231.1	232.0	233.0
177.5°	229.8	229.3	229.8	229.8	229.8	230.1	230.8	230.1	229.8	230.1	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	8.6	8.6	8.3	8.2	7.8	9.0	7.8
90°	12.1	12.6	13.5	13.0	13.5	13.9	13.5
92.5°	31.1	27.5	25.0	24.2	22.7	23.2	22.4
95°	113.5	88.8	72.1	63.3	59.0	55.8	54.0
97.5°	334.3	274.3	218.7	184.3	163.4	150.8	146.8
100°	510.6	456.2	390.1	343.2	309.2	291.1	291.6
102.5°	590.6	558.9	517.0	480.5	453.6	438.4	427.7
105°	651.0	659.9	647.8	626.4	608.7	593.9	591.5
107.5°	643.4	684.1	700.7	701.1	695.1	690.1	685.8
110°	618.5	677.1	709.6	722.7	726.4	725.5	724.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	585.7	651.4	693.2	717.1	728.6	732.1	732.3
115°	533.4	601.8	652.4	687.3	707.8	717.1	719.4
117.5°	489.1	550.5	601.9	638.3	661.7	675.1	678.2
120°	464.6	520.3	567.4	604.1	630.1	641.2	644.1
122.5°	444.8	496.5	540.1	572.8	596.2	608.5	612.0
125°	420.4	465.0	502.2	532.0	552.4	564.1	567.4
127.5°	398.9	439.2	473.0	499.5	517.0	527.5	530.5
130°	385.5	423.1	454.8	479.5	496.2	506.0	509.6
132.5°	372.8	407.9	438.1	461.2	477.9	486.6	489.2
135°	354.8	385.1	411.6	434.3	448.3	456.6	459.9
137.5°	337.5	363.5	386.5	405.6	419.7	426.8	428.9
140°	327.3	349.7	369.7	387.3	400.4	407.8	407.3
142.5°	317.7	337.0	354.4	369.5	381.1	387.8	387.3
145°	305.1	319.9	333.5	345.0	354.8	358.6	359.5
147.5°	295.6	307.7	317.2	326.0	332.6	336.2	336.6
150°	289.7	299.5	308.3	315.3	320.4	323.2	323.2
152.5°	284.1	292.8	300.1	305.6	310.4	312.0	312.0
155°	276.2	283.2	288.8	292.9	296.7	297.6	298.1
157.5°	268.5	273.9	278.3	281.9	284.7	285.4	285.4
160°	263.7	268.3	271.6	274.8	277.6	277.6	277.1
162.5°	258.4	262.8	265.6	267.7	270.2	270.2	269.7
165°	251.1	254.4	256.7	258.5	260.4	259.9	259.9
167.5°	245.4	247.3	249.0	249.8	251.1	250.6	250.6
170°	241.3	243.2	244.1	244.6	245.6	245.1	245.1
172.5°	238.0	239.5	240.0	240.1	241.1	240.3	239.9
175°	233.4	234.4	234.4	234.4	234.8	234.4	233.9
177.5°	230.8	231.2	231.2	230.8	231.2	230.5	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8

(END OF REPORT)