

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: P332331-830

Luminaire Tested: **S123RDIP-S1000D365U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332331-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D365U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.8 lumens
Efficiency: N/A
Efficacy: 112.8 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

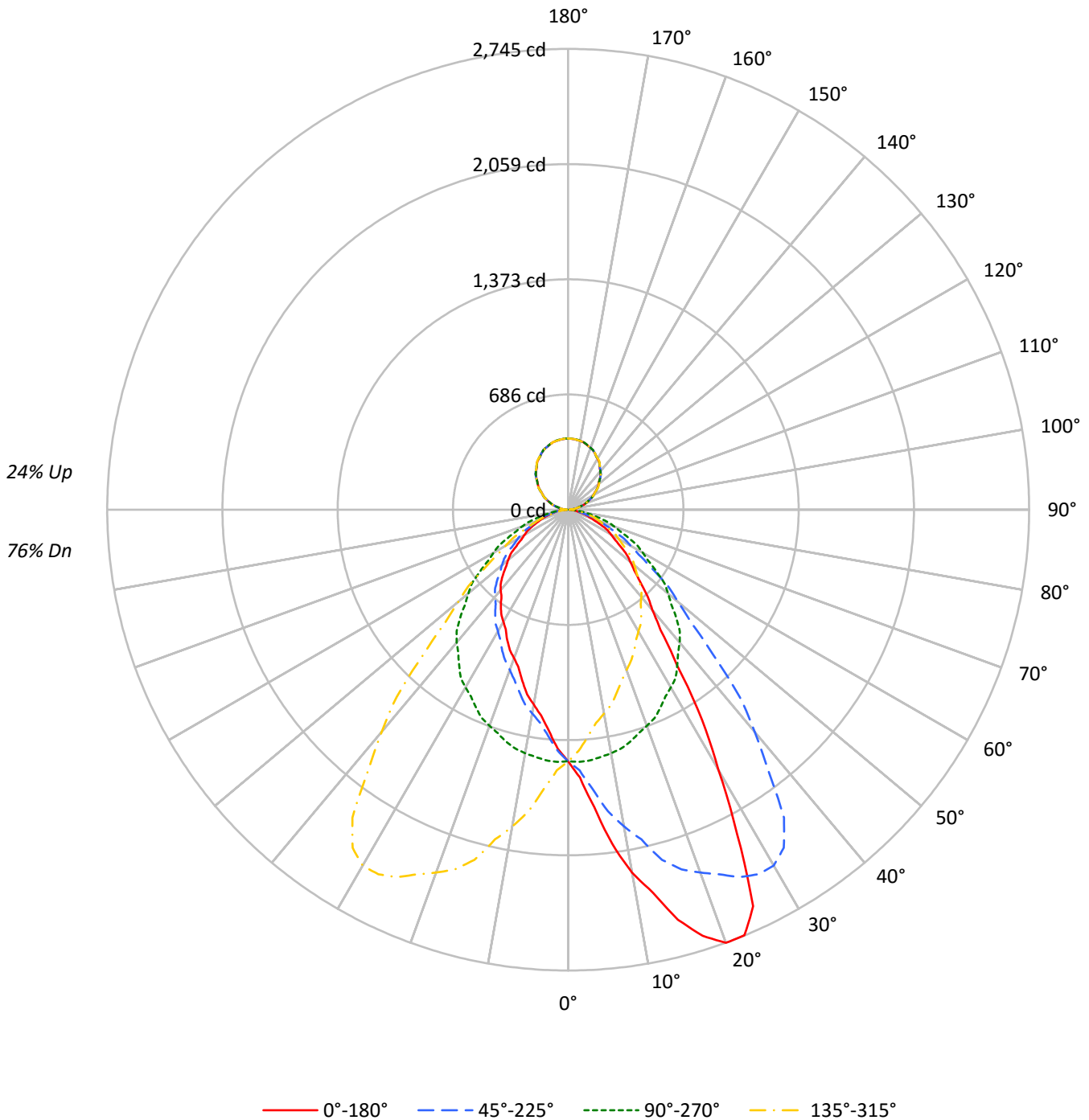
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	105	100	97	93	99	96	93	90	87	85	82	79	78	76	72	71	69	66
2	96	89	83	78	91	85	80	75	78	73	70	71	68	65	65	62	60	57
3	88	79	72	66	84	76	69	64	69	64	60	63	59	56	58	55	52	49
4	81	70	63	57	77	68	61	55	62	56	52	57	52	49	52	49	46	43
5	75	63	55	49	71	61	54	48	56	50	45	52	47	43	48	44	40	38
6	69	57	49	43	66	55	48	42	51	45	40	47	42	38	44	39	36	33
7	64	52	44	39	61	50	43	38	47	40	36	43	38	34	40	36	32	30
8	60	48	40	35	57	46	39	34	43	37	32	40	34	31	37	32	29	27
9	56	44	36	31	54	42	35	30	39	33	29	37	32	28	34	30	26	25
10	53	40	33	28	50	39	32	28	37	31	27	34	29	25	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.0
10°-20°	460.3	9.4
20°-30°	723.2	14.7
30°-40°	754.5	15.4
40°-50°	645.7	13.2
50°-60°	492.2	10.0
60°-70°	315.5	6.4
70°-80°	151.8	3.1
80°-90°	41.4	0.8
90°-100°	27.6	0.6
100°-110°	82.7	1.7
110°-120°	140.6	2.9
120°-130°	185.0	3.8
130°-140°	207.9	4.2
140°-150°	204.4	4.2
150°-160°	172.0	3.5
160°-170°	114.5	2.3
170°-180°	40.1	0.8
0°-30°	1330.9	27.1
0°-40°	2085.5	42.5
0°-60°	3223.3	65.7
0°-90°	3732.0	76.1
90°-120°	250.9	5.1
90°-150°	848.1	17.3
90°-180°	1175.0	23.9
0°-180°	4906.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	25
90°	10	0	10	0	10	6
95°	26	20	26	20	26	27
105°	79	75	79	75	79	84
115°	142	142	142	142	142	141
125°	205	207	205	207	205	183
135°	268	269	268	269	268	206
145°	326	326	326	326	326	204
155°	373	373	373	373	373	172
165°	405	407	405	407	405	114
175°	421	423	421	423	421	40
180°	424	424	424	424	424	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	7.2	8.1	7.1	7.5	7.5	8.0	7.9	7.9	8.9	8.3	8.6
90°	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.3	8.0	7.1
92.5°	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3	13.0	12.8	12.3
95°	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3	25.0	24.7	24.0
97.5°	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2	38.9	38.5	38.2
100°	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4	49.2	48.9	48.6
102.5°	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2	60.9	60.7	60.2
105°	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6	78.6	78.6	77.9
107.5°	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6	97.3	97.1	96.8
110°	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2	109.9	109.6	109.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8	122.4	122.2	122.1
115°	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0	141.9	141.9	142.0
117.5°	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5	161.5	161.5	161.6
120°	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4	174.5	174.6	174.9
122.5°	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5	187.7	187.8	188.0
125°	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9	207.2	207.5	207.6
127.5°	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1	226.6	227.0	227.2
130°	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9	239.2	239.5	239.7
132.5°	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3	251.7	252.0	252.1
135°	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8	270.1	270.5	270.5
137.5°	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0	288.3	288.6	288.4
140°	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9	300.0	300.1	300.0
142.5°	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1	311.2	311.3	311.1
145°	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6	327.7	327.7	327.5
147.5°	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7	352.7	352.7	352.6
152.5°	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5	361.4	361.3	361.2
155°	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3	374.0	373.7	373.6
157.5°	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3	385.0	384.7	384.7
160°	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1	391.7	391.3	391.3
162.5°	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5	398.1	397.8	397.8
165°	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6	406.1	405.7	405.7
167.5°	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1	412.6	412.3	412.2
170°	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7	416.2	415.7	415.7
172.5°	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5	419.1	418.6	418.6
175°	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5	422.2	421.7	421.7
177.5°	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0	423.6	423.2	423.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	9.4	8.8	9.5	9.4	10.7	11.1	14.0	16.5	17.2	15.3	15.4
90°	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4	1.0	1.8	2.5
92.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1	8.6	9.0	9.6
95°	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7	20.2	20.6	21.2
97.5°	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9	35.3	35.7	36.1
100°	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3	45.7	46.2	46.7
102.5°	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3	57.6	57.8	58.1
105°	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9	75.1	75.2	75.4
107.5°	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5	95.6	95.7	95.8
110°	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3	108.4	108.6	108.7



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6	121.7	121.8	121.9
115°	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6	141.8	142.0	142.2
117.5°	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6	161.8	162.0	162.1
120°	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2	174.7	175.1	175.5
122.5°	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3	187.6	187.9	188.2
125°	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2	207.4	207.6	207.8
127.5°	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6	226.0	226.5	227.0
130°	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8	238.4	239.0	239.6
132.5°	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1	250.7	251.3	251.8
135°	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8	269.3	269.7	270.1
137.5°	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2	286.5	286.8	287.2
140°	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1	298.5	298.9	299.3
142.5°	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1	309.4	309.8	310.2
145°	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1	326.2	326.4	326.5
147.5°	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0	341.3	341.6	341.9
150°	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4	351.6	351.7	351.9
152.5°	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0	360.1	360.3	360.5
155°	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8	384.7	384.7	384.6
160°	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0	391.9	391.7	391.6
162.5°	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4	398.2	398.0	397.8
165°	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7	406.5	406.2	406.0
167.5°	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3	413.0	412.7	412.4
170°	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0	416.7	416.4	416.1
172.5°	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0	419.6	419.3	419.1
175°	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0	422.7	422.4	422.2
177.5°	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2	424.0	423.8	423.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	15.0	16.8	17.4	18.2	18.9	18.6	19.1	19.1	19.7	19.8	19.8
90°	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6	8.9	9.1	9.4
92.5°	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3	13.5	13.8	13.9
95°	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3	25.5	25.8	26.0
97.5°	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2	39.6	40.0	40.1
100°	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4	49.7	49.9	50.0
102.5°	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2	61.4	61.5	61.6
105°	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6	78.6	78.6	78.7
107.5°	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6	97.7	98.0	98.1
110°	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2	110.5	110.7	110.8



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8	123.2	123.6	123.7
115°	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0	142.1	142.2	142.2
117.5°	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5	161.5	161.5	161.3
120°	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4	174.3	174.3	174.1
122.5°	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5	187.3	187.1	186.9
125°	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9	206.6	206.3	206.0
127.5°	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1	225.7	225.3	224.9
130°	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9	238.6	238.3	237.9
132.5°	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3	250.9	250.6	250.2
135°	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8	269.6	269.3	269.1
137.5°	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0	287.8	287.4	287.1
140°	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9	299.9	299.8	299.5
142.5°	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1	311.0	311.0	310.8
145°	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6	327.5	327.4	327.3
147.5°	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7	352.7	352.7	352.5
152.5°	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5	361.7	361.7	361.6
155°	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3	374.6	374.9	374.8
157.5°	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3	385.7	386.0	385.9
160°	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1	392.5	392.9	392.9
162.5°	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5	398.9	399.3	399.2
165°	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6	407.0	407.5	407.5
167.5°	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1	413.6	414.1	414.1
170°	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7	417.3	417.7	417.7
172.5°	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5	420.0	420.5	420.5
175°	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5	423.0	423.5	423.4
177.5°	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0	424.2	424.6	424.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	20.9	19.9	19.9	20.5	19.9	19.9	20.9	19.8	19.8	19.7	19.1
90°	9.5	9.7	9.8	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6
92.5°	13.8	13.7	13.6	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3
95°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3
97.5°	40.1	40.1	40.0	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2
100°	50.1	50.3	50.5	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4
102.5°	61.6	61.6	61.5	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2
105°	78.8	79.0	79.2	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6
107.5°	98.0	97.9	97.8	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6
110°	110.7	110.6	110.4	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.7	123.7	123.6	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8
115°	142.1	142.0	141.9	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0
117.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5
120°	174.0	173.8	173.7	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4
122.5°	186.7	186.4	186.2	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5
125°	205.8	205.5	205.1	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9
127.5°	224.6	224.2	223.9	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1
130°	237.4	236.9	236.4	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9
132.5°	249.8	249.4	249.0	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3
135°	268.9	268.7	268.6	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8
137.5°	286.8	286.5	286.3	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0
140°	299.0	298.5	297.9	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9
142.5°	310.4	310.0	309.5	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1
145°	327.0	326.7	326.4	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6
147.5°	342.5	342.0	341.6	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2
150°	352.0	351.7	351.2	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7
152.5°	361.2	360.8	360.4	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5
155°	374.3	373.7	373.2	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3
157.5°	385.5	385.1	384.7	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3
160°	392.6	392.3	392.0	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1
162.5°	398.7	398.2	397.8	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5
165°	406.9	406.4	405.9	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6
167.5°	413.6	413.1	412.6	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1
170°	417.3	416.7	416.2	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7
172.5°	419.9	419.4	418.9	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5
175°	422.9	422.4	421.9	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5
177.5°	424.2	423.8	423.4	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	19.1	18.6	18.9	18.2	17.4	16.8	15.0	15.4	15.3	17.2	16.5
90°	8.3	8.0	7.1	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4
92.5°	13.0	12.8	12.3	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1
95°	25.0	24.7	24.0	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7
97.5°	38.9	38.5	38.2	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9
100°	49.2	48.9	48.6	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3
102.5°	60.9	60.7	60.2	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3
105°	78.6	78.6	77.9	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9
107.5°	97.3	97.1	96.8	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5
110°	109.9	109.6	109.4	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.4	122.2	122.1	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6
115°	141.9	141.9	142.0	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6
117.5°	161.5	161.5	161.6	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6
120°	174.5	174.6	174.9	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2
122.5°	187.7	187.8	188.0	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3
125°	207.2	207.5	207.6	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2
127.5°	226.6	227.0	227.2	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6
130°	239.2	239.5	239.7	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8
132.5°	251.7	252.0	252.1	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1
135°	270.1	270.5	270.5	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8
137.5°	288.3	288.6	288.4	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2
140°	300.0	300.1	300.0	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1
142.5°	311.2	311.3	311.1	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1
145°	327.7	327.7	327.5	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1
147.5°	343.2	343.2	342.9	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0
150°	352.7	352.7	352.6	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4
152.5°	361.4	361.3	361.2	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0
155°	374.0	373.7	373.6	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	385.0	384.7	384.7	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8
160°	391.7	391.3	391.3	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0
162.5°	398.1	397.8	397.8	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4
165°	406.1	405.7	405.7	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7
167.5°	412.6	412.3	412.2	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3
170°	416.2	415.7	415.7	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0
172.5°	419.1	418.6	418.6	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0
175°	422.2	421.7	421.7	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0
177.5°	423.6	423.2	423.2	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



TEST NUMBER: P332331-830

CATALOG NUMBER: S123RDIP-S1000D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.0	11.1	10.7	9.4	9.5	8.8	9.4	8.6	8.3	8.9	7.9
90°	1.0	1.8	2.5	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6
92.5°	8.6	9.0	9.6	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3
95°	20.2	20.6	21.2	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3
97.5°	35.3	35.7	36.1	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2
100°	45.7	46.2	46.7	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4
102.5°	57.6	57.8	58.1	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2
105°	75.1	75.2	75.4	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6
107.5°	95.6	95.7	95.8	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6
110°	108.4	108.6	108.7	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.7	121.8	121.9	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8
115°	141.8	142.0	142.2	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0
117.5°	161.8	162.0	162.1	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5
120°	174.7	175.1	175.5	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4
122.5°	187.6	187.9	188.2	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5
125°	207.4	207.6	207.8	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9
127.5°	226.0	226.5	227.0	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1
130°	238.4	239.0	239.6	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9
132.5°	250.7	251.3	251.8	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3
135°	269.3	269.7	270.1	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8
137.5°	286.5	286.8	287.2	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0
140°	298.5	298.9	299.3	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9
142.5°	309.4	309.8	310.2	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1
145°	326.2	326.4	326.5	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6
147.5°	341.3	341.6	341.9	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2
150°	351.6	351.7	351.9	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7
152.5°	360.1	360.3	360.5	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5
155°	373.4	373.4	373.4	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3
157.5°	384.7	384.7	384.6	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3
160°	391.9	391.7	391.6	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1
162.5°	398.2	398.0	397.8	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5
165°	406.5	406.2	406.0	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6
167.5°	413.0	412.7	412.4	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1
170°	416.7	416.4	416.1	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7
172.5°	419.6	419.3	419.1	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5
175°	422.7	422.4	422.2	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5
177.5°	424.0	423.8	423.6	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	7.9	8.0	7.5	7.5	7.1	8.1	7.2
90°	8.9	9.1	9.4	9.5	9.7	9.8	10.0
92.5°	13.5	13.8	13.9	13.8	13.7	13.6	13.5
95°	25.5	25.8	26.0	26.0	26.0	26.0	26.0
97.5°	39.6	40.0	40.1	40.1	40.1	40.0	40.0
100°	49.7	49.9	50.0	50.1	50.3	50.5	50.6
102.5°	61.4	61.5	61.6	61.6	61.6	61.5	61.5
105°	78.6	78.6	78.7	78.8	79.0	79.2	79.3
107.5°	97.7	98.0	98.1	98.0	97.9	97.8	97.7
110°	110.5	110.7	110.8	110.7	110.6	110.4	110.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.2	123.6	123.7	123.7	123.7	123.6	123.6
115°	142.1	142.2	142.2	142.1	142.0	141.9	141.9
117.5°	161.5	161.5	161.3	161.1	160.9	160.7	160.5
120°	174.3	174.3	174.1	174.0	173.8	173.7	173.5
122.5°	187.3	187.1	186.9	186.7	186.4	186.2	186.1
125°	206.6	206.3	206.0	205.8	205.5	205.1	204.8
127.5°	225.7	225.3	224.9	224.6	224.2	223.9	223.6
130°	238.6	238.3	237.9	237.4	236.9	236.4	235.8
132.5°	250.9	250.6	250.2	249.8	249.4	249.0	248.6
135°	269.6	269.3	269.1	268.9	268.7	268.6	268.4
137.5°	287.8	287.4	287.1	286.8	286.5	286.3	286.0
140°	299.9	299.8	299.5	299.0	298.5	297.9	297.5
142.5°	311.0	311.0	310.8	310.4	310.0	309.5	309.2
145°	327.5	327.4	327.3	327.0	326.7	326.4	326.1
147.5°	343.2	343.2	342.9	342.5	342.0	341.6	341.1
150°	352.7	352.7	352.5	352.0	351.7	351.2	350.7
152.5°	361.7	361.7	361.6	361.2	360.8	360.4	360.1
155°	374.6	374.9	374.8	374.3	373.7	373.2	372.7
157.5°	385.7	386.0	385.9	385.5	385.1	384.7	384.3
160°	392.5	392.9	392.9	392.6	392.3	392.0	391.7
162.5°	398.9	399.3	399.2	398.7	398.2	397.8	397.3
165°	407.0	407.5	407.5	406.9	406.4	405.9	405.4
167.5°	413.6	414.1	414.1	413.6	413.1	412.6	412.3
170°	417.3	417.7	417.7	417.3	416.7	416.2	415.7
172.5°	420.0	420.5	420.5	419.9	419.4	418.9	418.4
175°	423.0	423.5	423.4	422.9	422.4	421.9	421.3
177.5°	424.2	424.6	424.6	424.2	423.8	423.4	422.9
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0

(END OF REPORT)