

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: P332373-930

Luminaire Tested: **S123RDIP-S1165D805U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332373-930
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-S1165D805U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5977.7 lumens
Efficiency: N/A
Efficacy: 98.5 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: Semi-Direct

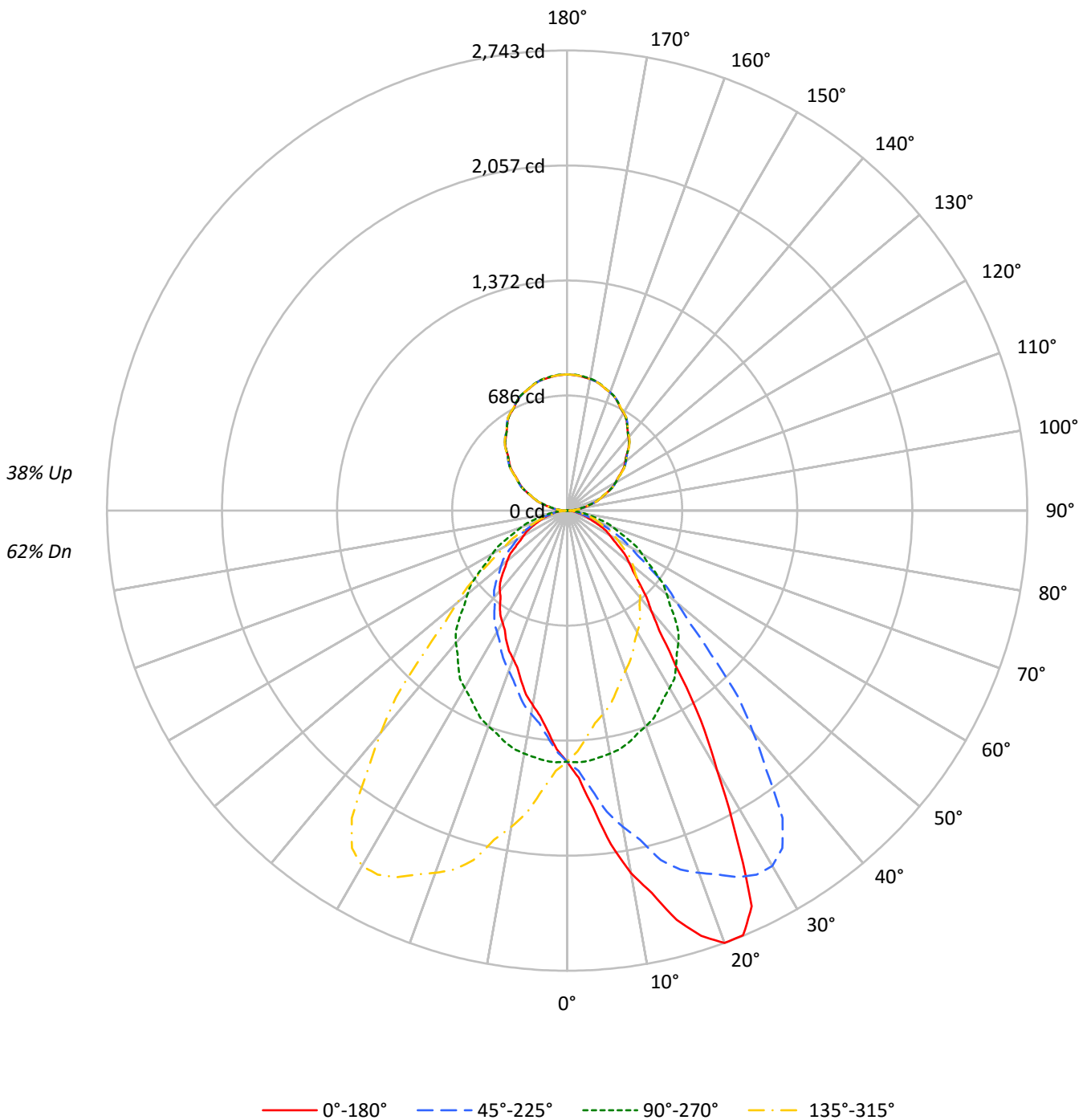
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54
2	93	86	80	75	87	81	76	71	71	67	64	62	60	57	54	52	50	46
3	85	76	69	63	80	72	65	60	63	59	55	56	52	49	49	46	44	40
4	78	68	60	54	73	64	57	52	57	51	47	50	46	43	44	41	38	35
5	72	61	53	47	68	58	50	45	51	46	41	46	41	37	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	37	32	38	33	30	34	30	27	25
8	58	45	38	33	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	51	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	37	30	26	33	28	24	30	25	22	27	23	20	18

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



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	2.5
10°-20°	459.9	7.7
20°-30°	722.5	12.1
30°-40°	753.8	12.6
40°-50°	645.1	10.8
50°-60°	491.7	8.2
60°-70°	315.1	5.3
70°-80°	151.6	2.5
80°-90°	42.5	0.7
90°-100°	52.9	0.9
100°-110°	158.2	2.6
110°-120°	269.1	4.5
120°-130°	354.0	5.9
130°-140°	397.9	6.7
140°-150°	391.1	6.5
150°-160°	329.2	5.5
160°-170°	219.2	3.7
170°-180°	76.7	1.3
0°-30°	1329.6	22.2
0°-40°	2083.4	34.9
0°-60°	3220.2	53.9
0°-90°	3729.5	62.4
90°-120°	480.2	8.0
90°-150°	1623.1	27.2
90°-180°	2248.0	37.6
0°-180°	5977.7	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°	19	1	19	1	19	10
95°	50	38	50	38	50	51
105°	152	143	152	143	152	161
115°	272	271	272	271	272	269
125°	392	396	392	396	392	350
135°	514	514	514	514	514	395
145°	624	624	624	624	624	390
155°	713	714	713	714	713	328
165°	776	778	776	778	776	219
175°	806	810	806	810	806	77
180°	812	812	812	812	812	



TEST NUMBER: P332373-930

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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°	9.0	9.9	8.8	9.3	9.2	9.7	9.5	9.5	10.4	9.7	9.9
90°	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5	15.9	15.3	13.5
92.5°	25.8	25.9	26.1	26.3	26.4	26.3	25.8	25.4	24.9	24.5	23.4
95°	49.7	49.7	49.7	49.7	49.7	49.4	48.8	48.3	47.8	47.2	46.1
97.5°	76.5	76.6	76.6	76.6	76.7	76.4	75.7	75.1	74.4	73.8	73.0
100°	96.9	96.6	96.3	96.0	95.8	95.4	95.0	94.6	94.2	93.7	93.0
102.5°	117.8	117.9	117.9	118.0	118.1	117.8	117.4	117.0	116.6	116.2	115.2
105°	151.7	151.4	151.2	150.8	150.6	150.4	150.4	150.4	150.4	150.4	149.2
107.5°	187.0	187.2	187.4	187.5	187.7	187.6	187.1	186.6	186.2	185.7	185.2
110°	211.0	211.2	211.6	211.8	212.1	212.0	211.4	210.8	210.3	209.7	209.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	236.5	236.5	236.6	236.7	236.7	236.4	235.7	235.1	234.4	233.7	233.7
115°	271.6	271.7	271.8	272.0	272.1	272.1	272.0	271.8	271.7	271.6	271.8
117.5°	307.1	307.5	307.9	308.3	308.7	308.9	308.9	309.0	309.0	309.0	309.4
120°	332.1	332.4	332.6	333.0	333.2	333.5	333.6	333.7	333.9	334.0	334.8
122.5°	356.0	356.4	356.9	357.3	357.7	358.1	358.4	358.8	359.1	359.5	359.9
125°	392.0	392.6	393.1	393.7	394.3	394.8	395.4	396.0	396.6	397.1	397.4
127.5°	427.9	428.5	429.2	429.8	430.5	431.2	431.9	432.8	433.6	434.3	434.6
130°	451.3	452.3	453.3	454.3	455.3	456.1	456.6	457.2	457.7	458.3	458.8
132.5°	475.8	476.5	477.3	478.1	478.8	479.6	480.2	480.9	481.6	482.2	482.6
135°	513.8	514.0	514.4	514.6	514.9	515.4	515.9	516.5	517.1	517.6	517.7
137.5°	547.3	547.9	548.4	548.9	549.4	550.0	550.7	551.2	551.8	552.4	552.0
140°	569.2	570.2	571.2	572.2	573.2	573.7	573.9	574.1	574.2	574.3	574.2
142.5°	591.7	592.4	593.2	593.9	594.8	595.2	595.3	595.5	595.6	595.7	595.5
145°	624.0	624.6	625.2	625.7	626.3	626.6	626.8	627.0	627.1	627.2	626.8
147.5°	652.9	653.7	654.5	655.4	656.2	656.7	656.7	656.7	656.7	656.7	656.3
150°	671.2	672.1	672.9	673.8	674.7	675.1	675.1	675.1	675.1	675.1	674.7
152.5°	689.1	689.8	690.6	691.3	692.0	692.3	692.0	691.8	691.6	691.4	691.2
155°	713.3	714.3	715.3	716.2	717.2	717.5	716.9	716.3	715.8	715.2	715.1
157.5°	735.3	736.1	736.9	737.8	738.5	738.6	738.0	737.4	736.9	736.2	736.1
160°	749.6	750.2	750.7	751.3	751.9	751.8	751.1	750.4	749.7	749.0	749.0
162.5°	760.3	761.2	762.1	763.0	763.9	764.1	763.4	762.6	761.9	761.2	761.1
165°	775.8	776.7	777.7	778.8	779.8	779.8	778.9	778.1	777.2	776.4	776.4
167.5°	788.9	789.8	790.7	791.5	792.4	792.4	791.5	790.7	789.8	788.9	788.8
170°	795.5	796.5	797.5	798.5	799.5	799.5	798.5	797.5	796.5	795.5	795.5
172.5°	800.6	801.6	802.6	803.6	804.6	804.6	803.8	802.9	802.0	801.1	801.1
175°	806.3	807.3	808.4	809.3	810.3	810.4	809.5	808.7	807.9	807.0	807.0
177.5°	809.4	810.2	811.0	811.8	812.6	812.6	812.0	811.3	810.6	809.9	809.9
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	10.5	9.6	10.3	9.9	11.3	11.5	14.3	16.6	17.4	15.6	15.8
90°	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7	2.0	3.5	4.9
92.5°	22.4	21.4	20.3	19.2	18.3	17.4	16.4	15.4	16.4	17.4	18.3
95°	44.9	43.8	42.6	41.6	40.6	39.6	38.6	37.6	38.6	39.6	40.6
97.5°	72.2	71.3	70.5	69.8	69.0	68.2	67.5	66.8	67.5	68.2	69.0
100°	92.3	91.6	90.9	90.1	89.3	88.4	87.6	86.7	87.6	88.4	89.3
102.5°	114.3	113.3	112.4	111.7	111.2	110.6	110.1	109.7	110.1	110.6	111.2
105°	147.9	146.6	145.4	144.6	144.3	144.0	143.7	143.4	143.7	144.0	144.3
107.5°	184.7	184.3	183.7	183.4	183.2	183.0	182.9	182.7	182.9	183.0	183.2
110°	209.1	208.9	208.6	208.3	208.0	207.7	207.4	207.2	207.4	207.7	208.0



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	233.6	233.5	233.4	233.3	233.2	233.0	232.8	232.7	232.8	233.0	233.2
115°	272.1	272.4	272.7	272.6	272.1	271.7	271.3	270.9	271.3	271.7	272.1
117.5°	309.7	310.1	310.5	310.5	310.2	310.0	309.7	309.4	309.7	310.0	310.2
120°	335.4	336.1	336.9	336.8	335.9	335.1	334.2	333.4	334.2	335.1	335.9
122.5°	360.3	360.6	361.0	360.9	360.2	359.6	359.0	358.4	359.0	359.6	360.2
125°	397.7	397.9	398.3	398.2	397.8	397.3	396.9	396.5	396.9	397.3	397.8
127.5°	435.0	435.3	435.6	435.3	434.4	433.5	432.6	431.7	432.6	433.5	434.4
130°	459.2	459.6	460.0	459.7	458.5	457.4	456.2	455.1	456.2	457.4	458.5
132.5°	482.9	483.2	483.6	483.1	482.0	480.9	479.7	478.6	479.7	480.9	482.0
135°	517.9	518.0	518.2	517.8	517.0	516.1	515.3	514.4	515.3	516.1	517.0
137.5°	551.6	551.3	550.9	550.4	549.7	548.9	548.3	547.6	548.3	548.9	549.7
140°	574.1	573.9	573.7	573.3	572.7	571.9	571.2	570.5	571.2	571.9	572.7
142.5°	595.3	595.0	594.8	594.3	593.5	592.8	592.2	591.4	592.2	592.8	593.5
145°	626.4	626.0	625.5	625.2	624.9	624.6	624.4	624.0	624.4	624.6	624.9
147.5°	655.9	655.5	655.1	654.7	654.1	653.6	653.1	652.6	653.1	653.6	654.1
150°	674.5	674.2	673.9	673.6	673.4	673.0	672.8	672.5	672.8	673.0	673.4
152.5°	691.0	690.9	690.7	690.4	690.0	689.6	689.2	688.8	689.2	689.6	690.0
155°	714.9	714.8	714.6	714.5	714.5	714.5	714.5	714.5	714.5	714.5	714.5
157.5°	736.1	735.9	735.8	735.8	736.0	736.1	736.3	736.5	736.3	736.1	736.0
160°	749.0	749.0	749.0	749.1	749.4	749.7	750.0	750.2	750.0	749.7	749.4
162.5°	761.0	760.9	760.8	760.9	761.3	761.7	762.1	762.5	762.1	761.7	761.3
165°	776.4	776.4	776.4	776.6	777.1	777.5	777.9	778.3	777.9	777.5	777.1
167.5°	788.6	788.6	788.5	788.6	789.2	789.8	790.4	790.9	790.4	789.8	789.2
170°	795.5	795.5	795.5	795.8	796.4	797.0	797.5	798.1	797.5	797.0	796.4
172.5°	801.1	801.1	801.1	801.4	802.0	802.6	803.2	803.6	803.2	802.6	802.0
175°	807.0	807.0	807.0	807.3	807.9	808.5	808.9	809.5	808.9	808.5	807.9
177.5°	809.9	809.9	809.9	810.2	810.6	811.1	811.5	812.0	811.5	811.1	810.6
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	15.7	17.4	18.3	19.2	20.1	20.0	20.6	20.7	21.4	21.4	21.5
90°	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5	17.0	17.5	18.0
92.5°	19.2	20.3	21.4	22.4	23.4	24.5	24.9	25.4	25.8	26.3	26.4
95°	41.6	42.6	43.8	44.9	46.1	47.2	47.8	48.3	48.8	49.4	49.7
97.5°	69.8	70.5	71.3	72.2	73.0	73.8	74.4	75.1	75.7	76.4	76.7
100°	90.1	90.9	91.6	92.3	93.0	93.7	94.2	94.6	95.0	95.4	95.8
102.5°	111.7	112.4	113.3	114.3	115.2	116.2	116.6	117.0	117.4	117.8	118.1
105°	144.6	145.4	146.6	147.9	149.2	150.4	150.4	150.4	150.4	150.4	150.6
107.5°	183.4	183.7	184.3	184.7	185.2	185.7	186.2	186.6	187.1	187.6	187.7
110°	208.3	208.6	208.9	209.1	209.5	209.7	210.3	210.8	211.4	212.0	212.1



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	233.3	233.4	233.5	233.6	233.7	233.7	234.4	235.1	235.7	236.4	236.7
115°	272.6	272.7	272.4	272.1	271.8	271.6	271.7	271.8	272.0	272.1	272.1
117.5°	310.5	310.5	310.1	309.7	309.4	309.0	309.0	309.0	308.9	308.9	308.7
120°	336.8	336.9	336.1	335.4	334.8	334.0	333.9	333.7	333.6	333.5	333.2
122.5°	360.9	361.0	360.6	360.3	359.9	359.5	359.1	358.8	358.4	358.1	357.7
125°	398.2	398.3	397.9	397.7	397.4	397.1	396.6	396.0	395.4	394.8	394.3
127.5°	435.3	435.6	435.3	435.0	434.6	434.3	433.6	432.8	431.9	431.2	430.5
130°	459.7	460.0	459.6	459.2	458.8	458.3	457.7	457.2	456.6	456.1	455.3
132.5°	483.1	483.6	483.2	482.9	482.6	482.2	481.6	480.9	480.2	479.6	478.8
135°	517.8	518.2	518.0	517.9	517.7	517.6	517.1	516.5	515.9	515.4	514.9
137.5°	550.4	550.9	551.3	551.6	552.0	552.4	551.8	551.2	550.7	550.0	549.4
140°	573.3	573.7	573.9	574.1	574.2	574.3	574.2	574.1	573.9	573.7	573.2
142.5°	594.3	594.8	595.0	595.3	595.5	595.7	595.6	595.5	595.3	595.2	594.8
145°	625.2	625.5	626.0	626.4	626.8	627.2	627.1	627.0	626.8	626.6	626.3
147.5°	654.7	655.1	655.5	655.9	656.3	656.7	656.7	656.7	656.7	656.7	656.2
150°	673.6	673.9	674.2	674.5	674.7	675.1	675.1	675.1	675.1	675.1	674.7
152.5°	690.4	690.7	690.9	691.0	691.2	691.4	691.6	691.8	692.0	692.3	692.0
155°	714.5	714.6	714.8	714.9	715.1	715.2	715.8	716.3	716.9	717.5	717.2
157.5°	735.8	735.8	735.9	736.1	736.1	736.2	736.9	737.4	738.0	738.6	738.5
160°	749.1	749.0	749.0	749.0	749.0	749.0	749.7	750.4	751.1	751.8	751.9
162.5°	760.9	760.8	760.9	761.0	761.1	761.2	761.9	762.6	763.4	764.1	763.9
165°	776.6	776.4	776.4	776.4	776.4	776.4	777.2	778.1	778.9	779.8	779.8
167.5°	788.6	788.5	788.6	788.6	788.8	788.9	789.8	790.7	791.5	792.4	792.4
170°	795.8	795.5	795.5	795.5	795.5	795.5	796.5	797.5	798.5	799.5	799.5
172.5°	801.4	801.1	801.1	801.1	801.1	801.1	802.0	802.9	803.8	804.6	804.6
175°	807.3	807.0	807.0	807.0	807.0	807.0	807.9	808.7	809.5	810.4	810.3
177.5°	810.2	809.9	809.9	809.9	809.9	809.9	810.6	811.3	812.0	812.6	812.6
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	22.6	21.7	21.7	22.3	21.7	21.7	22.6	21.5	21.4	21.4	20.7
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5
92.5°	26.3	26.1	25.9	25.8	25.9	26.1	26.3	26.4	26.3	25.8	25.4
95°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.4	48.8	48.3
97.5°	76.6	76.6	76.6	76.5	76.6	76.6	76.6	76.7	76.4	75.7	75.1
100°	96.0	96.3	96.6	96.9	96.6	96.3	96.0	95.8	95.4	95.0	94.6
102.5°	118.0	117.9	117.9	117.8	117.9	117.9	118.0	118.1	117.8	117.4	117.0
105°	150.8	151.2	151.4	151.7	151.4	151.2	150.8	150.6	150.4	150.4	150.4
107.5°	187.5	187.4	187.2	187.0	187.2	187.4	187.5	187.7	187.6	187.1	186.6
110°	211.8	211.6	211.2	211.0	211.2	211.6	211.8	212.1	212.0	211.4	210.8



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	236.7	236.6	236.5	236.5	236.5	236.6	236.7	236.7	236.4	235.7	235.1
115°	272.0	271.8	271.7	271.6	271.7	271.8	272.0	272.1	272.1	272.0	271.8
117.5°	308.3	307.9	307.5	307.1	307.5	307.9	308.3	308.7	308.9	308.9	309.0
120°	333.0	332.6	332.4	332.1	332.4	332.6	333.0	333.2	333.5	333.6	333.7
122.5°	357.3	356.9	356.4	356.0	356.4	356.9	357.3	357.7	358.1	358.4	358.8
125°	393.7	393.1	392.6	392.0	392.6	393.1	393.7	394.3	394.8	395.4	396.0
127.5°	429.8	429.2	428.5	427.9	428.5	429.2	429.8	430.5	431.2	431.9	432.8
130°	454.3	453.3	452.3	451.3	452.3	453.3	454.3	455.3	456.1	456.6	457.2
132.5°	478.1	477.3	476.5	475.8	476.5	477.3	478.1	478.8	479.6	480.2	480.9
135°	514.6	514.4	514.0	513.8	514.0	514.4	514.6	514.9	515.4	515.9	516.5
137.5°	548.9	548.4	547.9	547.3	547.9	548.4	548.9	549.4	550.0	550.7	551.2
140°	572.2	571.2	570.2	569.2	570.2	571.2	572.2	573.2	573.7	573.9	574.1
142.5°	593.9	593.2	592.4	591.7	592.4	593.2	593.9	594.8	595.2	595.3	595.5
145°	625.7	625.2	624.6	624.0	624.6	625.2	625.7	626.3	626.6	626.8	627.0
147.5°	655.4	654.5	653.7	652.9	653.7	654.5	655.4	656.2	656.7	656.7	656.7
150°	673.8	672.9	672.1	671.2	672.1	672.9	673.8	674.7	675.1	675.1	675.1
152.5°	691.3	690.6	689.8	689.1	689.8	690.6	691.3	692.0	692.3	692.0	691.8
155°	716.2	715.3	714.3	713.3	714.3	715.3	716.2	717.2	717.5	716.9	716.3
157.5°	737.8	736.9	736.1	735.3	736.1	736.9	737.8	738.5	738.6	738.0	737.4
160°	751.3	750.7	750.2	749.6	750.2	750.7	751.3	751.9	751.8	751.1	750.4
162.5°	763.0	762.1	761.2	760.3	761.2	762.1	763.0	763.9	764.1	763.4	762.6
165°	778.8	777.7	776.7	775.8	776.7	777.7	778.8	779.8	779.8	778.9	778.1
167.5°	791.5	790.7	789.8	788.9	789.8	790.7	791.5	792.4	792.4	791.5	790.7
170°	798.5	797.5	796.5	795.5	796.5	797.5	798.5	799.5	799.5	798.5	797.5
172.5°	803.6	802.6	801.6	800.6	801.6	802.6	803.6	804.6	804.6	803.8	802.9
175°	809.3	808.4	807.3	806.3	807.3	808.4	809.3	810.3	810.4	809.5	808.7
177.5°	811.8	811.0	810.2	809.4	810.2	811.0	811.8	812.6	812.6	812.0	811.3
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	20.6	20.0	20.1	19.2	18.3	17.4	15.7	15.8	15.6	17.4	16.6
90°	15.9	15.3	13.5	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7
92.5°	24.9	24.5	23.4	22.4	21.4	20.3	19.2	18.3	17.4	16.4	15.4
95°	47.8	47.2	46.1	44.9	43.8	42.6	41.6	40.6	39.6	38.6	37.6
97.5°	74.4	73.8	73.0	72.2	71.3	70.5	69.8	69.0	68.2	67.5	66.8
100°	94.2	93.7	93.0	92.3	91.6	90.9	90.1	89.3	88.4	87.6	86.7
102.5°	116.6	116.2	115.2	114.3	113.3	112.4	111.7	111.2	110.6	110.1	109.7
105°	150.4	150.4	149.2	147.9	146.6	145.4	144.6	144.3	144.0	143.7	143.4
107.5°	186.2	185.7	185.2	184.7	184.3	183.7	183.4	183.2	183.0	182.9	182.7
110°	210.3	209.7	209.5	209.1	208.9	208.6	208.3	208.0	207.7	207.4	207.2



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	234.4	233.7	233.7	233.6	233.5	233.4	233.3	233.2	233.0	232.8	232.7
115°	271.7	271.6	271.8	272.1	272.4	272.7	272.6	272.1	271.7	271.3	270.9
117.5°	309.0	309.0	309.4	309.7	310.1	310.5	310.5	310.2	310.0	309.7	309.4
120°	333.9	334.0	334.8	335.4	336.1	336.9	336.8	335.9	335.1	334.2	333.4
122.5°	359.1	359.5	359.9	360.3	360.6	361.0	360.9	360.2	359.6	359.0	358.4
125°	396.6	397.1	397.4	397.7	397.9	398.3	398.2	397.8	397.3	396.9	396.5
127.5°	433.6	434.3	434.6	435.0	435.3	435.6	435.3	434.4	433.5	432.6	431.7
130°	457.7	458.3	458.8	459.2	459.6	460.0	459.7	458.5	457.4	456.2	455.1
132.5°	481.6	482.2	482.6	482.9	483.2	483.6	483.1	482.0	480.9	479.7	478.6
135°	517.1	517.6	517.7	517.9	518.0	518.2	517.8	517.0	516.1	515.3	514.4
137.5°	551.8	552.4	552.0	551.6	551.3	550.9	550.4	549.7	548.9	548.3	547.6
140°	574.2	574.3	574.2	574.1	573.9	573.7	573.3	572.7	571.9	571.2	570.5
142.5°	595.6	595.7	595.5	595.3	595.0	594.8	594.3	593.5	592.8	592.2	591.4
145°	627.1	627.2	626.8	626.4	626.0	625.5	625.2	624.9	624.6	624.4	624.0
147.5°	656.7	656.7	656.3	655.9	655.5	655.1	654.7	654.1	653.6	653.1	652.6
150°	675.1	675.1	674.7	674.5	674.2	673.9	673.6	673.4	673.0	672.8	672.5
152.5°	691.6	691.4	691.2	691.0	690.9	690.7	690.4	690.0	689.6	689.2	688.8
155°	715.8	715.2	715.1	714.9	714.8	714.6	714.5	714.5	714.5	714.5	714.5
157.5°	736.9	736.2	736.1	736.1	735.9	735.8	735.8	736.0	736.1	736.3	736.5
160°	749.7	749.0	749.0	749.0	749.0	749.0	749.1	749.4	749.7	750.0	750.2
162.5°	761.9	761.2	761.1	761.0	760.9	760.8	760.9	761.3	761.7	762.1	762.5
165°	777.2	776.4	776.4	776.4	776.4	776.4	776.6	777.1	777.5	777.9	778.3
167.5°	789.8	788.9	788.8	788.6	788.6	788.5	788.6	789.2	789.8	790.4	790.9
170°	796.5	795.5	795.5	795.5	795.5	795.5	795.8	796.4	797.0	797.5	798.1
172.5°	802.0	801.1	801.1	801.1	801.1	801.1	801.4	802.0	802.6	803.2	803.6
175°	807.9	807.0	807.0	807.0	807.0	807.0	807.3	807.9	808.5	808.9	809.5
177.5°	810.6	809.9	809.9	809.9	809.9	809.9	810.2	810.6	811.1	811.5	812.0
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	14.3	11.5	11.3	9.9	10.3	9.6	10.5	9.9	9.7	10.4	9.5
90°	2.0	3.5	4.9	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5
92.5°	16.4	17.4	18.3	19.2	20.3	21.4	22.4	23.4	24.5	24.9	25.4
95°	38.6	39.6	40.6	41.6	42.6	43.8	44.9	46.1	47.2	47.8	48.3
97.5°	67.5	68.2	69.0	69.8	70.5	71.3	72.2	73.0	73.8	74.4	75.1
100°	87.6	88.4	89.3	90.1	90.9	91.6	92.3	93.0	93.7	94.2	94.6
102.5°	110.1	110.6	111.2	111.7	112.4	113.3	114.3	115.2	116.2	116.6	117.0
105°	143.7	144.0	144.3	144.6	145.4	146.6	147.9	149.2	150.4	150.4	150.4
107.5°	182.9	183.0	183.2	183.4	183.7	184.3	184.7	185.2	185.7	186.2	186.6
110°	207.4	207.7	208.0	208.3	208.6	208.9	209.1	209.5	209.7	210.3	210.8



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	232.8	233.0	233.2	233.3	233.4	233.5	233.6	233.7	233.7	234.4	235.1
115°	271.3	271.7	272.1	272.6	272.7	272.4	272.1	271.8	271.6	271.7	271.8
117.5°	309.7	310.0	310.2	310.5	310.5	310.1	309.7	309.4	309.0	309.0	309.0
120°	334.2	335.1	335.9	336.8	336.9	336.1	335.4	334.8	334.0	333.9	333.7
122.5°	359.0	359.6	360.2	360.9	361.0	360.6	360.3	359.9	359.5	359.1	358.8
125°	396.9	397.3	397.8	398.2	398.3	397.9	397.7	397.4	397.1	396.6	396.0
127.5°	432.6	433.5	434.4	435.3	435.6	435.3	435.0	434.6	434.3	433.6	432.8
130°	456.2	457.4	458.5	459.7	460.0	459.6	459.2	458.8	458.3	457.7	457.2
132.5°	479.7	480.9	482.0	483.1	483.6	483.2	482.9	482.6	482.2	481.6	480.9
135°	515.3	516.1	517.0	517.8	518.2	518.0	517.9	517.7	517.6	517.1	516.5
137.5°	548.3	548.9	549.7	550.4	550.9	551.3	551.6	552.0	552.4	551.8	551.2
140°	571.2	571.9	572.7	573.3	573.7	573.9	574.1	574.2	574.3	574.2	574.1
142.5°	592.2	592.8	593.5	594.3	594.8	595.0	595.3	595.5	595.7	595.6	595.5
145°	624.4	624.6	624.9	625.2	625.5	626.0	626.4	626.8	627.2	627.1	627.0
147.5°	653.1	653.6	654.1	654.7	655.1	655.5	655.9	656.3	656.7	656.7	656.7
150°	672.8	673.0	673.4	673.6	673.9	674.2	674.5	674.7	675.1	675.1	675.1
152.5°	689.2	689.6	690.0	690.4	690.7	690.9	691.0	691.2	691.4	691.6	691.8
155°	714.5	714.5	714.5	714.5	714.6	714.8	714.9	715.1	715.2	715.8	716.3
157.5°	736.3	736.1	736.0	735.8	735.8	735.9	736.1	736.1	736.2	736.9	737.4
160°	750.0	749.7	749.4	749.1	749.0	749.0	749.0	749.0	749.0	749.7	750.4
162.5°	762.1	761.7	761.3	760.9	760.8	760.9	761.0	761.1	761.2	761.9	762.6
165°	777.9	777.5	777.1	776.6	776.4	776.4	776.4	776.4	776.4	777.2	778.1
167.5°	790.4	789.8	789.2	788.6	788.5	788.6	788.6	788.8	788.9	789.8	790.7
170°	797.5	797.0	796.4	795.8	795.5	795.5	795.5	795.5	795.5	796.5	797.5
172.5°	803.2	802.6	802.0	801.4	801.1	801.1	801.1	801.1	801.1	802.0	802.9
175°	808.9	808.5	807.9	807.3	807.0	807.0	807.0	807.0	807.0	807.9	808.7
177.5°	811.5	811.1	810.6	810.2	809.9	809.9	809.9	809.9	809.9	810.6	811.3
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

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°	9.5	9.7	9.2	9.3	8.8	9.9	9.0
90°	17.0	17.5	18.0	18.3	18.6	18.8	19.2
92.5°	25.8	26.3	26.4	26.3	26.1	25.9	25.8
95°	48.8	49.4	49.7	49.7	49.7	49.7	49.7
97.5°	75.7	76.4	76.7	76.6	76.6	76.6	76.5
100°	95.0	95.4	95.8	96.0	96.3	96.6	96.9
102.5°	117.4	117.8	118.1	118.0	117.9	117.9	117.8
105°	150.4	150.4	150.6	150.8	151.2	151.4	151.7
107.5°	187.1	187.6	187.7	187.5	187.4	187.2	187.0
110°	211.4	212.0	212.1	211.8	211.6	211.2	211.0



TEST NUMBER: P332373-930

CATALOG NUMBER: S123RDIP-S1165D805U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	235.7	236.4	236.7	236.7	236.6	236.5	236.5
115°	272.0	272.1	272.1	272.0	271.8	271.7	271.6
117.5°	308.9	308.9	308.7	308.3	307.9	307.5	307.1
120°	333.6	333.5	333.2	333.0	332.6	332.4	332.1
122.5°	358.4	358.1	357.7	357.3	356.9	356.4	356.0
125°	395.4	394.8	394.3	393.7	393.1	392.6	392.0
127.5°	431.9	431.2	430.5	429.8	429.2	428.5	427.9
130°	456.6	456.1	455.3	454.3	453.3	452.3	451.3
132.5°	480.2	479.6	478.8	478.1	477.3	476.5	475.8
135°	515.9	515.4	514.9	514.6	514.4	514.0	513.8
137.5°	550.7	550.0	549.4	548.9	548.4	547.9	547.3
140°	573.9	573.7	573.2	572.2	571.2	570.2	569.2
142.5°	595.3	595.2	594.8	593.9	593.2	592.4	591.7
145°	626.8	626.6	626.3	625.7	625.2	624.6	624.0
147.5°	656.7	656.7	656.2	655.4	654.5	653.7	652.9
150°	675.1	675.1	674.7	673.8	672.9	672.1	671.2
152.5°	692.0	692.3	692.0	691.3	690.6	689.8	689.1
155°	716.9	717.5	717.2	716.2	715.3	714.3	713.3
157.5°	738.0	738.6	738.5	737.8	736.9	736.1	735.3
160°	751.1	751.8	751.9	751.3	750.7	750.2	749.6
162.5°	763.4	764.1	763.9	763.0	762.1	761.2	760.3
165°	778.9	779.8	779.8	778.8	777.7	776.7	775.8
167.5°	791.5	792.4	792.4	791.5	790.7	789.8	788.9
170°	798.5	799.5	799.5	798.5	797.5	796.5	795.5
172.5°	803.8	804.6	804.6	803.6	802.6	801.6	800.6
175°	809.5	810.4	810.3	809.3	808.4	807.3	806.3
177.5°	812.0	812.6	812.6	811.8	811.0	810.2	809.4
180°	811.5	811.5	811.5	811.5	811.5	811.5	811.5

(END OF REPORT)