

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: P332336-830

Luminaire Tested: **S123RDIP-S1000D585U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332336-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D585U830-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5939.4 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

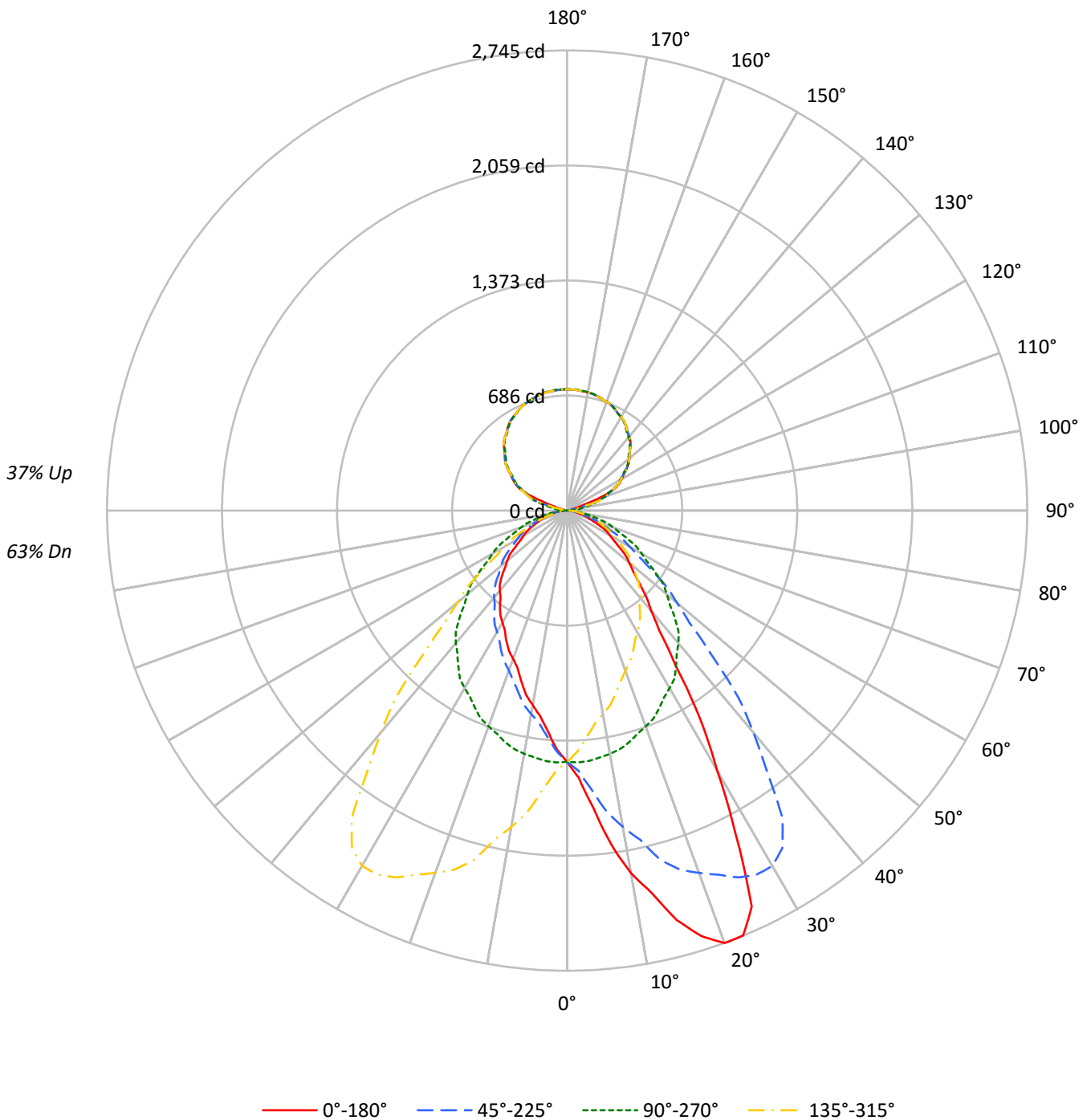
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	94	90	95	91	88	85	81	78	76	70	69	67	61	60	59	54
2	93	86	80	75	87	81	76	71	71	67	64	63	60	57	55	53	51	47
3	85	76	69	63	80	72	66	60	64	59	55	56	52	49	49	46	44	40
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	44	41	39	35
5	72	61	53	47	68	58	51	45	51	46	41	46	41	38	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	30	28
7	62	50	42	37	58	47	40	35	43	37	32	38	33	30	34	30	27	25
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	31	27	25	22
9	54	42	34	29	51	40	33	28	36	30	26	32	28	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°	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	2.5
10°-20°	460.3	7.8
20°-30°	723.2	12.2
30°-40°	754.5	12.7
40°-50°	645.7	10.9
50°-60°	492.2	8.3
60°-70°	315.5	5.3
70°-80°	151.8	2.6
80°-90°	42.2	0.7
90°-100°	26.3	0.4
100°-110°	125.4	2.1
110°-120°	301.2	5.1
120°-130°	383.5	6.5
130°-140°	409.8	6.9
140°-150°	383.2	6.5
150°-160°	309.1	5.2
160°-170°	199.5	3.4
170°-180°	68.7	1.2
0°-30°	1330.9	22.4
0°-40°	2085.5	35.1
0°-60°	3223.3	54.3
0°-90°	3732.8	62.8
90°-120°	452.8	7.6
90°-150°	1629.3	27.4
90°-180°	2207.0	37.2
0°-180°	5939.4	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°	16	1	16	1	16	8
95°	20	33	20	33	20	17
105°	24	160	24	160	24	54
115°	316	300	316	300	316	292
125°	432	424	432	424	432	386
135°	533	527	533	527	533	411
145°	614	608	614	608	614	384
155°	669	670	669	670	669	309
165°	705	707	705	707	705	199
175°	721	724	721	724	721	69
180°	724	724	724	724	724	



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	8.4	9.3	8.3	8.8	8.7	9.1	9.0	9.0	9.9	9.2	9.4
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3	14.5	13.8	12.6
95°	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4	17.5	16.7	15.4
97.5°	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2	18.3	17.3	25.9
100°	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6	18.7	17.7	36.4
102.5°	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4	32.4	35.3	55.7
105°	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4	96.6	117.7	128.5
107.5°	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7	200.3	215.7	214.1
110°	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6	238.5	242.4	241.1



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7	269.7	269.6	268.2
115°	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9	309.8	308.6	307.5
117.5°	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4	347.4	346.4	345.9
120°	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9	371.9	370.9	370.6
122.5°	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8	396.2	395.5	395.0
125°	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6	430.3	430.1	429.6
127.5°	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4	464.0	463.6	463.1
130°	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7	484.3	483.8	483.3
132.5°	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2	503.7	503.2	502.8
135°	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5	533.1	532.7	532.3
137.5°	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6	559.0	558.5	558.2
140°	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2	575.7	575.2	574.9
142.5°	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9	591.5	591.2	590.8
145°	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9	613.6	613.4	613.1
147.5°	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6	633.3	633.1	632.8
150°	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5	645.4	645.1	644.9
152.5°	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3	655.8	655.4	655.3
155°	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0	670.4	669.9	669.7
157.5°	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8	683.2	682.4	682.5
160°	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2	690.4	689.8	689.8
162.5°	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8	697.0	696.2	696.3
165°	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7	705.8	704.7	704.9
167.5°	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6	712.7	711.6	711.6
170°	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5	716.5	715.5	715.5
172.5°	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0	719.1	718.1	718.0
175°	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1	722.3	721.4	721.3
177.5°	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2	723.5	722.7	722.6
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	10.2	9.3	10.1	9.8	11.1	11.4	14.2	16.5	17.2	15.5	15.7
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0	9.7	9.3	9.0
95°	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8	27.9	23.0	18.1
97.5°	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9	63.7	61.5	59.3
100°	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9	93.2	95.7	98.0
102.5°	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2	120.9	122.7	124.4
105°	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2	161.6	162.9	164.1
107.5°	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4	204.4	205.6	206.6
110°	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2	233.2	234.1	235.1





TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8	260.6	261.5	262.3
115°	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5	301.2	301.9	302.7
117.5°	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0	340.8	341.8	342.6
120°	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5	365.5	366.6	367.7
122.5°	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5	390.3	391.2	392.1
125°	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6	424.6	425.6	426.5
127.5°	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8	457.7	458.6	459.6
130°	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4	478.3	479.3	480.2
132.5°	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2	498.1	499.1	500.0
135°	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4	528.1	528.8	529.5
137.5°	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2	554.1	555.0	555.9
140°	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3	571.1	571.8	572.5
142.5°	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3	587.0	587.8	588.4
145°	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5	609.4	610.2	611.1
147.5°	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5	630.1	630.7	631.1
150°	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4	642.8	643.1	643.5
152.5°	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0	654.2	654.3	654.5
155°	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3	670.1	669.9	669.7
157.5°	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1	683.1	683.0	683.0
160°	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8	690.7	690.6	690.4
162.5°	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1	697.8	697.5	697.2
165°	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9	706.5	706.2	705.9
167.5°	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8	713.3	712.8	712.4
170°	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7	717.2	716.7	716.2
172.5°	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3	719.7	719.1	718.5
175°	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6	723.0	722.4	721.8
177.5°	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4	724.0	723.5	723.0
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	15.5	17.2	18.1	18.9	19.7	19.5	20.1	20.3	20.8	20.9	21.0
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3	16.0	16.8	17.2
95°	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4	19.1	20.0	20.5
97.5°	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2	20.2	21.1	21.7
100°	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6	20.6	21.6	22.1
102.5°	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4	26.5	23.6	22.1
105°	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4	54.3	33.2	22.7
107.5°	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7	169.3	153.7	138.1
110°	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6	230.6	226.7	216.1



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7	269.8	269.8	268.1
115°	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9	312.2	313.4	314.1
117.5°	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4	349.3	350.2	350.8
120°	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9	373.8	374.8	375.2
122.5°	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8	397.5	398.1	398.5
125°	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6	430.7	431.0	431.3
127.5°	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4	464.8	465.1	465.2
130°	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7	485.2	485.7	485.9
132.5°	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2	504.6	505.1	505.2
135°	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5	533.9	534.1	534.1
137.5°	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6	560.2	560.7	560.9
140°	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2	576.6	577.1	577.2
142.5°	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9	592.3	592.7	592.7
145°	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9	614.1	614.3	614.4
147.5°	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6	633.8	634.0	633.9
150°	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5	645.8	646.0	646.0
152.5°	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3	656.7	657.1	657.0
155°	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0	671.7	672.2	672.1
157.5°	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8	684.6	685.3	685.1
160°	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2	691.8	692.6	692.5
162.5°	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8	698.6	699.5	699.5
165°	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7	707.7	708.6	708.7
167.5°	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6	714.5	715.5	715.5
170°	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5	718.4	719.3	719.3
172.5°	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0	721.0	721.9	721.9
175°	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1	724.0	724.8	724.7
177.5°	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2	725.0	725.8	725.7
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	22.1	21.1	21.1	21.7	21.1	21.1	22.1	21.0	20.9	20.8	20.3
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	17.4	17.5	17.7	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3
95°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4
97.5°	21.8	21.9	22.1	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2
100°	22.2	22.3	22.4	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6
102.5°	22.3	22.6	22.8	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4
105°	22.9	23.2	23.4	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4
107.5°	122.1	106.1	90.2	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7
110°	199.1	182.0	164.9	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	264.5	260.8	257.2	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7
115°	314.6	315.2	315.7	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9
117.5°	350.9	351.0	351.1	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4
120°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9
122.5°	398.6	398.7	398.8	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8
125°	431.5	431.8	432.0	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6
127.5°	465.0	464.8	464.5	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4
130°	485.6	485.4	485.1	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7
132.5°	504.8	504.4	504.2	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2
135°	533.9	533.5	533.1	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5
137.5°	560.6	560.4	560.2	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6
140°	577.0	576.7	576.6	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2
142.5°	592.4	592.0	591.6	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9
145°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9
147.5°	633.3	632.7	632.3	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6
150°	645.6	645.3	644.9	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5
152.5°	656.6	656.0	655.4	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3
155°	671.5	670.7	670.1	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0
157.5°	684.2	683.3	682.4	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8
160°	691.7	690.9	690.0	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2
162.5°	698.7	698.0	697.2	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8
165°	707.8	707.0	706.2	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7
167.5°	714.5	713.6	712.7	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6
170°	718.4	717.5	716.5	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5
172.5°	720.9	719.8	718.7	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0
175°	723.8	722.8	721.9	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1
177.5°	724.7	723.8	722.8	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	20.1	19.5	19.7	18.9	18.1	17.2	15.5	15.7	15.5	17.2	16.5
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	14.5	13.8	12.6	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0
95°	17.5	16.7	15.4	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8
97.5°	18.3	17.3	25.9	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9
100°	18.7	17.7	36.4	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9
102.5°	32.4	35.3	55.7	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2
105°	96.6	117.7	128.5	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2
107.5°	200.3	215.7	214.1	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4
110°	238.5	242.4	241.1	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	269.7	269.6	268.2	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8
115°	309.8	308.6	307.5	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5
117.5°	347.4	346.4	345.9	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0
120°	371.9	370.9	370.6	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5
122.5°	396.2	395.5	395.0	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5
125°	430.3	430.1	429.6	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6
127.5°	464.0	463.6	463.1	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8
130°	484.3	483.8	483.3	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4
132.5°	503.7	503.2	502.8	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2
135°	533.1	532.7	532.3	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4
137.5°	559.0	558.5	558.2	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2
140°	575.7	575.2	574.9	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3
142.5°	591.5	591.2	590.8	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3
145°	613.6	613.4	613.1	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5
147.5°	633.3	633.1	632.8	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5
150°	645.4	645.1	644.9	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4
152.5°	655.8	655.4	655.3	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0
155°	670.4	669.9	669.7	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3
157.5°	683.2	682.4	682.5	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1
160°	690.4	689.8	689.8	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8
162.5°	697.0	696.2	696.3	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1
165°	705.8	704.7	704.9	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9
167.5°	712.7	711.6	711.6	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8
170°	716.5	715.5	715.5	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7
172.5°	719.1	718.1	718.0	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3
175°	722.3	721.4	721.3	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6
177.5°	723.5	722.7	722.6	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	14.2	11.4	11.1	9.8	10.1	9.3	10.2	9.4	9.2	9.9	9.0
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	9.7	9.3	9.0	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3
95°	27.9	23.0	18.1	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4
97.5°	63.7	61.5	59.3	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2
100°	93.2	95.7	98.0	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6
102.5°	120.9	122.7	124.4	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4
105°	161.6	162.9	164.1	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4
107.5°	204.4	205.6	206.6	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7
110°	233.2	234.1	235.1	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6





TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.6	261.5	262.3	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7
115°	301.2	301.9	302.7	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9
117.5°	340.8	341.8	342.6	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4
120°	365.5	366.6	367.7	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9
122.5°	390.3	391.2	392.1	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8
125°	424.6	425.6	426.5	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6
127.5°	457.7	458.6	459.6	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4
130°	478.3	479.3	480.2	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7
132.5°	498.1	499.1	500.0	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2
135°	528.1	528.8	529.5	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5
137.5°	554.1	555.0	555.9	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6
140°	571.1	571.8	572.5	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2
142.5°	587.0	587.8	588.4	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9
145°	609.4	610.2	611.1	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9
147.5°	630.1	630.7	631.1	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6
150°	642.8	643.1	643.5	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5
152.5°	654.2	654.3	654.5	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3
155°	670.1	669.9	669.7	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0
157.5°	683.1	683.0	683.0	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8
160°	690.7	690.6	690.4	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2
162.5°	697.8	697.5	697.2	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8
165°	706.5	706.2	705.9	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7
167.5°	713.3	712.8	712.4	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6
170°	717.2	716.7	716.2	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5
172.5°	719.7	719.1	718.5	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0
175°	723.0	722.4	721.8	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1
177.5°	724.0	723.5	723.0	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**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°	9.0	9.1	8.7	8.8	8.3	9.3	8.4
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	16.0	16.8	17.2	17.4	17.5	17.7	17.8
95°	19.1	20.0	20.5	20.5	20.5	20.5	20.5
97.5°	20.2	21.1	21.7	21.8	21.9	22.1	22.1
100°	20.6	21.6	22.1	22.2	22.3	22.4	22.6
102.5°	26.5	23.6	22.1	22.3	22.6	22.8	23.0
105°	54.3	33.2	22.7	22.9	23.2	23.4	23.7
107.5°	169.3	153.7	138.1	122.1	106.1	90.2	74.3
110°	230.6	226.7	216.1	199.1	182.0	164.9	147.8



TEST NUMBER: P332336-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	269.8	269.8	268.1	264.5	260.8	257.2	253.6
115°	312.2	313.4	314.1	314.6	315.2	315.7	316.1
117.5°	349.3	350.2	350.8	350.9	351.0	351.1	351.2
120°	373.8	374.8	375.2	375.2	375.2	375.2	375.2
122.5°	397.5	398.1	398.5	398.6	398.7	398.8	398.9
125°	430.7	431.0	431.3	431.5	431.8	432.0	432.3
127.5°	464.8	465.1	465.2	465.0	464.8	464.5	464.3
130°	485.2	485.7	485.9	485.6	485.4	485.1	484.9
132.5°	504.6	505.1	505.2	504.8	504.4	504.2	503.8
135°	533.9	534.1	534.1	533.9	533.5	533.1	532.7
137.5°	560.2	560.7	560.9	560.6	560.4	560.2	560.0
140°	576.6	577.1	577.2	577.0	576.7	576.6	576.3
142.5°	592.3	592.7	592.7	592.4	592.0	591.6	591.4
145°	614.1	614.3	614.4	614.4	614.4	614.4	614.4
147.5°	633.8	634.0	633.9	633.3	632.7	632.3	631.7
150°	645.8	646.0	646.0	645.6	645.3	644.9	644.6
152.5°	656.7	657.1	657.0	656.6	656.0	655.4	654.9
155°	671.7	672.2	672.1	671.5	670.7	670.1	669.3
157.5°	684.6	685.3	685.1	684.2	683.3	682.4	681.5
160°	691.8	692.6	692.5	691.7	690.9	690.0	689.2
162.5°	698.6	699.5	699.5	698.7	698.0	697.2	696.5
165°	707.7	708.6	708.7	707.8	707.0	706.2	705.3
167.5°	714.5	715.5	715.5	714.5	713.6	712.7	711.6
170°	718.4	719.3	719.3	718.4	717.5	716.5	715.5
172.5°	721.0	721.9	721.9	720.9	719.8	718.7	717.7
175°	724.0	724.8	724.7	723.8	722.8	721.9	720.9
177.5°	725.0	725.8	725.7	724.7	723.8	722.8	721.9
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6

(END OF REPORT)