

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: P333080-940

Luminaire Tested: **S124RDIW-S1020D770U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333080-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D770U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6244.2 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

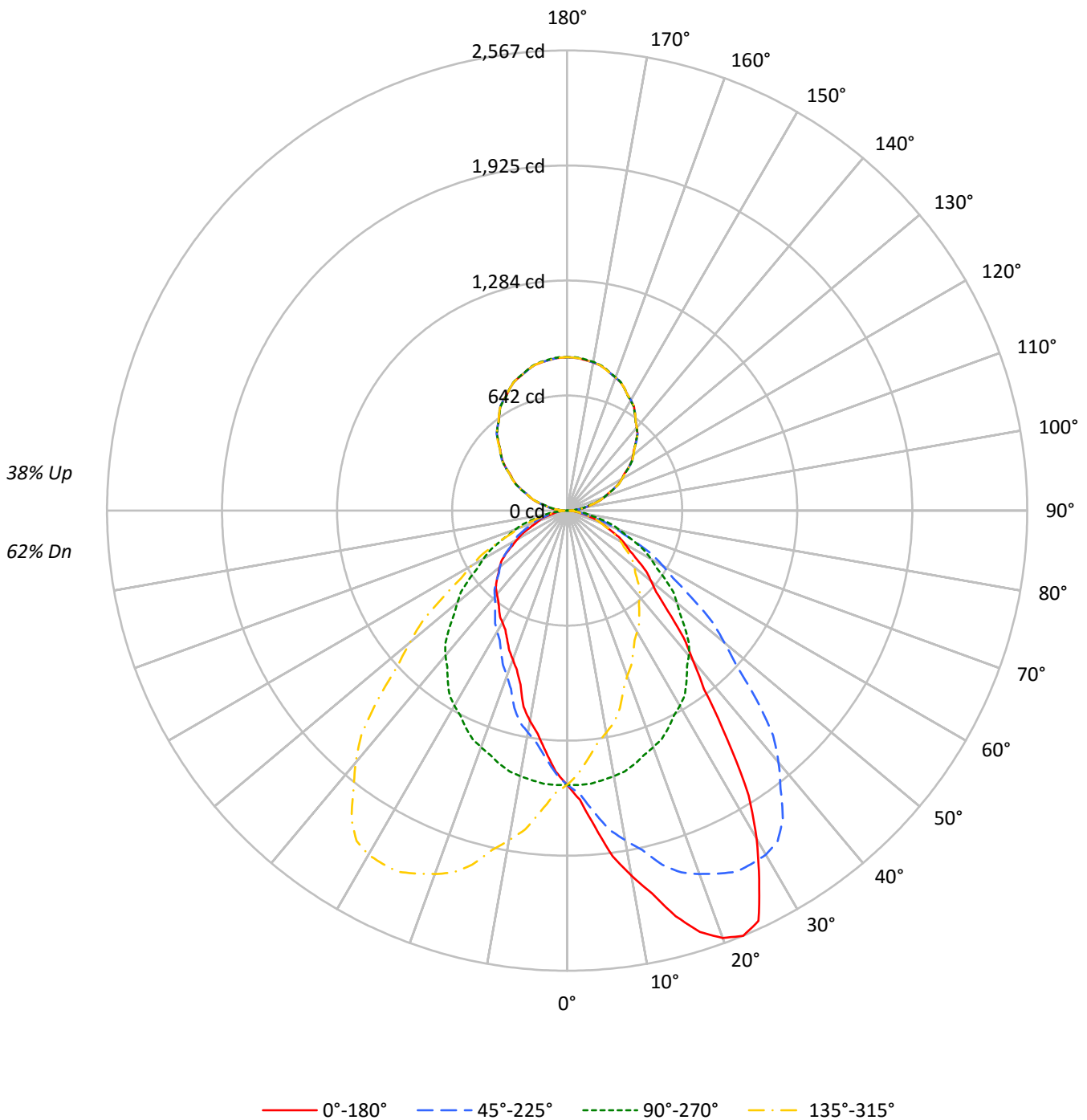
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	67	67	62																												
1	101	97	93	90	95	91	88	85	80	77	75	70	68	66	60	59	58	53																												
2	92	85	79	74	86	80	75	70	71	67	63	62	59	56	54	52	50	46																												
3	85	75	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43	39																												
4	78	67	59	53	73	63	56	51	56	51	46	49	45	42	43	40	37	34																												
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	39	36	33	30																												
6	66	54	46	40	62	51	44	39	46	40	35	41	36	32	36	32	29	26																												
7	61	49	41	36	57	47	39	34	42	36	31	37	32	29	33	29	26	24																												
8	57	45	37	32	53	42	35	31	38	32	28	34	29	26	30	26	23	21																												
9	53	41	34	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19																												
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	2.4
10°-20°	447.2	7.2
20°-30°	699.4	11.2
30°-40°	777.5	12.5
40°-50°	689.9	11.0
50°-60°	537.6	8.6
60°-70°	351.9	5.6
70°-80°	173.1	2.8
80°-90°	45.3	0.7
90°-100°	56.4	0.9
100°-110°	167.2	2.7
110°-120°	283.8	4.5
120°-130°	374.2	6.0
130°-140°	420.2	6.7
140°-150°	413.0	6.6
150°-160°	347.3	5.6
160°-170°	231.1	3.7
170°-180°	80.9	1.3
0°-30°	1294.9	20.7
0°-40°	2072.4	33.2
0°-60°	3299.8	52.8
0°-90°	3870.1	62.0
90°-120°	507.4	8.1
90°-150°	1714.8	27.5
90°-180°	2374.0	38.0
0°-180°	6244.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	35
90°	20	2	20	2	20	12
95°	52	40	52	40	52	54
105°	162	154	162	154	162	170
115°	286	289	286	289	286	283
125°	417	420	417	420	417	372
135°	543	542	543	542	543	419
145°	659	658	659	658	659	412
155°	754	754	754	754	754	347
165°	819	821	819	821	819	231
175°	850	854	850	854	850	81
180°	856	856	856	856	856	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	14.8	14.3	14.7	14.6	15.1	14.4	14.8	15.6	14.4	14.7	14.5
90°	19.9	19.5	19.3	19.0	18.6	18.1	17.2	16.3	15.4	14.5	13.4
92.5°	29.4	29.2	29.1	28.9	28.7	28.4	27.8	27.3	26.8	26.2	25.4
95°	52.3	52.3	52.3	52.3	52.3	52.1	51.6	51.2	50.7	50.3	49.3
97.5°	81.9	81.9	81.9	81.9	81.9	81.7	81.1	80.6	80.1	79.5	78.4
100°	102.5	102.5	102.5	102.5	102.5	102.5	102.1	101.8	101.6	101.3	100.0
102.5°	125.9	125.7	125.6	125.6	125.4	125.1	124.8	124.3	123.9	123.5	122.3
105°	161.5	161.0	160.6	160.2	159.7	159.3	158.8	158.4	157.9	157.5	156.9
107.5°	196.2	196.2	196.3	196.3	196.3	196.1	195.6	195.3	194.8	194.5	194.4
110°	221.1	220.6	220.2	219.7	219.3	219.2	219.5	219.8	220.1	220.3	220.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	246.5	246.4	246.3	246.2	246.1	246.1	246.1	246.2	246.3	246.3	246.6
115°	285.9	286.1	286.2	286.3	286.5	286.6	286.8	287.0	287.0	287.2	287.5
117.5°	323.5	323.8	324.0	324.4	324.7	325.0	325.6	326.1	326.5	327.1	327.3
120°	352.0	351.8	351.5	351.2	350.9	351.2	351.9	352.6	353.3	354.1	354.5
122.5°	375.9	376.5	376.9	377.5	378.0	378.5	379.1	379.5	380.0	380.6	380.8
125°	417.0	417.2	417.5	417.9	418.1	418.4	418.7	419.0	419.3	419.5	419.7
127.5°	455.0	455.1	455.4	455.7	455.8	456.1	456.5	456.7	457.0	457.4	457.5
130°	479.8	480.4	481.0	481.6	482.1	482.6	482.9	483.2	483.5	483.8	483.8
132.5°	506.3	506.5	506.8	507.0	507.2	507.5	507.8	508.1	508.4	508.6	508.8
135°	542.7	543.1	543.6	544.0	544.5	544.8	545.1	545.4	545.7	546.0	546.0
137.5°	580.9	580.9	580.8	580.7	580.6	580.8	581.1	581.5	581.8	582.3	582.0
140°	604.2	604.4	604.5	604.7	604.8	604.9	605.1	605.3	605.4	605.6	605.6
142.5°	627.5	627.6	627.6	627.6	627.7	627.7	627.7	627.8	627.8	627.8	627.9
145°	659.2	659.6	660.0	660.5	660.9	661.2	661.4	661.6	661.6	661.8	661.6
147.5°	691.2	691.3	691.5	691.6	691.8	691.9	692.1	692.1	692.2	692.4	692.5
150°	710.8	711.0	711.1	711.2	711.4	711.5	711.5	711.5	711.5	711.5	711.5
152.5°	728.8	729.2	729.6	730.0	730.3	730.3	730.0	729.6	729.2	728.9	728.8
155°	753.9	754.4	755.0	755.5	756.2	756.2	755.5	755.0	754.4	753.9	753.9
157.5°	776.1	776.7	777.2	777.7	778.2	778.2	777.8	777.3	776.9	776.4	776.5
160°	788.9	789.6	790.3	791.1	791.8	792.0	791.6	791.1	790.7	790.2	790.3
162.5°	802.1	802.9	803.6	804.3	805.0	805.0	804.2	803.4	802.6	801.8	802.0
165°	819.3	819.9	820.5	821.1	821.7	821.5	820.6	819.7	818.9	818.0	818.3
167.5°	831.6	832.6	833.5	834.4	835.3	835.3	834.4	833.6	832.7	831.8	831.7
170°	838.6	839.5	840.6	841.6	842.7	842.8	841.9	841.0	840.1	839.2	839.0
172.5°	844.4	845.3	846.4	847.4	848.5	848.5	847.5	846.5	845.5	844.5	844.5
175°	850.4	851.5	852.5	853.5	854.5	854.5	853.5	852.5	851.5	850.4	850.6
177.5°	853.6	854.5	855.5	856.4	857.4	857.5	856.6	855.8	855.0	854.2	854.2
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	14.3	13.6	14.3	14.0	14.2	15.9	17.0	17.1	16.1	14.9	13.7
90°	12.2	11.1	9.9	8.5	6.9	5.3	3.6	2.0	3.6	5.3	6.9
92.5°	24.5	23.7	22.9	21.6	19.7	17.8	16.1	14.2	16.1	17.8	19.7
95°	48.2	47.2	46.2	45.0	43.7	42.4	41.0	39.7	41.0	42.4	43.7
97.5°	77.1	76.0	74.7	73.6	72.5	71.5	70.4	69.4	70.4	71.5	72.5
100°	98.6	97.3	95.9	95.0	94.4	93.8	93.3	92.6	93.3	93.8	94.4
102.5°	121.1	119.8	118.7	118.0	117.7	117.4	117.3	117.0	117.3	117.4	117.7
105°	156.3	155.8	155.2	154.8	154.6	154.5	154.4	154.2	154.4	154.5	154.6
107.5°	194.3	194.2	194.1	193.9	193.8	193.6	193.4	193.2	193.4	193.6	193.8
110°	220.7	220.8	221.0	220.9	220.6	220.3	220.0	219.7	220.0	220.3	220.6



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.8	247.1	247.4	247.4	247.4	247.4	247.3	247.3	247.3	247.4	247.4
115°	287.8	288.1	288.4	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6
117.5°	327.5	327.7	327.9	328.0	327.8	327.7	327.6	327.4	327.6	327.7	327.8
120°	355.0	355.4	355.8	355.8	355.2	354.5	354.0	353.4	354.0	354.5	355.2
122.5°	380.9	381.2	381.4	381.4	381.1	380.8	380.7	380.4	380.7	380.8	381.1
125°	419.9	420.0	420.2	420.3	420.3	420.3	420.3	420.3	420.3	420.3	420.3
127.5°	457.8	458.0	458.3	458.2	457.7	457.3	456.8	456.4	456.8	457.3	457.7
130°	483.8	483.8	483.8	483.6	483.1	482.7	482.2	481.8	482.2	482.7	483.1
132.5°	508.9	509.0	509.2	509.1	508.7	508.4	508.1	507.7	508.1	508.4	508.7
135°	546.0	546.0	546.0	545.5	544.7	543.8	542.9	542.1	542.9	543.8	544.7
137.5°	581.8	581.6	581.3	581.0	580.6	580.1	579.8	579.3	579.8	580.1	580.6
140°	605.6	605.6	605.6	605.4	605.1	604.8	604.5	604.2	604.5	604.8	605.1
142.5°	628.0	628.1	628.3	628.2	627.9	627.6	627.3	627.0	627.3	627.6	627.9
145°	661.6	661.4	661.2	660.8	660.3	659.7	659.1	658.5	659.1	659.7	660.3
147.5°	692.6	692.8	692.9	692.6	691.9	691.2	690.5	689.7	690.5	691.2	691.9
150°	711.5	711.5	711.5	711.1	710.6	710.0	709.4	708.8	709.4	710.0	710.6
152.5°	728.7	728.5	728.4	728.3	727.9	727.5	727.2	726.8	727.2	727.5	727.9
155°	754.1	754.2	754.4	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
157.5°	776.5	776.5	776.6	776.7	776.9	777.2	777.5	777.8	777.5	777.2	776.9
160°	790.5	790.7	790.8	790.9	791.1	791.2	791.4	791.6	791.4	791.2	791.1
162.5°	802.2	802.3	802.5	802.7	803.1	803.4	803.9	804.2	803.9	803.4	803.1
165°	818.6	818.9	819.2	819.6	820.0	820.5	820.9	821.4	820.9	820.5	820.0
167.5°	831.7	831.7	831.6	832.0	832.6	833.2	833.8	834.4	833.8	833.2	832.6
170°	838.9	838.7	838.6	838.9	839.6	840.3	841.1	841.9	841.1	840.3	839.6
172.5°	844.5	844.4	844.4	844.6	845.3	845.9	846.5	847.1	846.5	845.9	845.3
175°	850.7	850.9	851.0	851.5	852.2	852.9	853.6	854.4	853.6	852.9	852.2
177.5°	854.2	854.2	854.2	854.4	855.1	855.6	856.2	856.8	856.2	855.6	855.1
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	14.0	13.8	14.0	13.3	14.0	14.3	13.9	14.1	14.8	14.0	14.1
90°	8.5	9.9	11.1	12.2	13.4	14.5	15.4	16.3	17.2	18.1	18.6
92.5°	21.6	22.9	23.7	24.5	25.4	26.2	26.8	27.3	27.8	28.4	28.7
95°	45.0	46.2	47.2	48.2	49.3	50.3	50.7	51.2	51.6	52.1	52.3
97.5°	73.6	74.7	76.0	77.1	78.4	79.5	80.1	80.6	81.1	81.7	81.9
100°	95.0	95.9	97.3	98.6	100.0	101.3	101.6	101.8	102.1	102.5	102.5
102.5°	118.0	118.7	119.8	121.1	122.3	123.5	123.9	124.3	124.8	125.1	125.4
105°	154.8	155.2	155.8	156.3	156.9	157.5	157.9	158.4	158.8	159.3	159.7
107.5°	193.9	194.1	194.2	194.3	194.4	194.5	194.8	195.3	195.6	196.1	196.3
110°	220.9	221.0	220.8	220.7	220.5	220.3	220.1	219.8	219.5	219.2	219.3



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	247.4	247.4	247.1	246.8	246.6	246.3	246.3	246.2	246.1	246.1	246.1
115°	288.6	288.4	288.1	287.8	287.5	287.2	287.0	287.0	286.8	286.6	286.5
117.5°	328.0	327.9	327.7	327.5	327.3	327.1	326.5	326.1	325.6	325.0	324.7
120°	355.8	355.8	355.4	355.0	354.5	354.1	353.3	352.6	351.9	351.2	350.9
122.5°	381.4	381.4	381.2	380.9	380.8	380.6	380.0	379.5	379.1	378.5	378.0
125°	420.3	420.2	420.0	419.9	419.7	419.5	419.3	419.0	418.7	418.4	418.1
127.5°	458.2	458.3	458.0	457.8	457.5	457.4	457.0	456.7	456.5	456.1	455.8
130°	483.6	483.8	483.8	483.8	483.8	483.8	483.5	483.2	482.9	482.6	482.1
132.5°	509.1	509.2	509.0	508.9	508.8	508.6	508.4	508.1	507.8	507.5	507.2
135°	545.5	546.0	546.0	546.0	546.0	546.0	545.7	545.4	545.1	544.8	544.5
137.5°	581.0	581.3	581.6	581.8	582.0	582.3	581.8	581.5	581.1	580.8	580.6
140°	605.4	605.6	605.6	605.6	605.6	605.6	605.4	605.3	605.1	604.9	604.8
142.5°	628.2	628.3	628.1	628.0	627.9	627.8	627.8	627.8	627.7	627.7	627.7
145°	660.8	661.2	661.4	661.6	661.6	661.8	661.6	661.6	661.4	661.2	660.9
147.5°	692.6	692.9	692.8	692.6	692.5	692.4	692.2	692.1	692.1	691.9	691.8
150°	711.1	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.4
152.5°	728.3	728.4	728.5	728.7	728.8	728.9	729.2	729.6	730.0	730.3	730.3
155°	754.5	754.4	754.2	754.1	753.9	753.9	754.4	755.0	755.5	756.2	756.2
157.5°	776.7	776.6	776.5	776.5	776.5	776.4	776.9	777.3	777.8	778.2	778.2
160°	790.9	790.8	790.7	790.5	790.3	790.2	790.7	791.1	791.6	792.0	791.8
162.5°	802.7	802.5	802.3	802.2	802.0	801.8	802.6	803.4	804.2	805.0	805.0
165°	819.6	819.2	818.9	818.6	818.3	818.0	818.9	819.7	820.6	821.5	821.7
167.5°	832.0	831.6	831.7	831.7	831.7	831.8	832.7	833.6	834.4	835.3	835.3
170°	838.9	838.6	838.7	838.9	839.0	839.2	840.1	841.0	841.9	842.8	842.7
172.5°	844.6	844.4	844.4	844.5	844.5	844.5	845.5	846.5	847.5	848.5	848.5
175°	851.5	851.0	850.9	850.7	850.6	850.4	851.5	852.5	853.5	854.5	854.5
177.5°	854.4	854.2	854.2	854.2	854.2	854.2	855.0	855.8	856.6	857.5	857.4
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	15.2	14.7	14.3	14.8	14.3	14.7	15.2	14.1	14.0	14.8	14.1
90°	19.0	19.3	19.5	19.9	19.5	19.3	19.0	18.6	18.1	17.2	16.3
92.5°	28.9	29.1	29.2	29.4	29.2	29.1	28.9	28.7	28.4	27.8	27.3
95°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.1	51.6	51.2
97.5°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.7	81.1	80.6
100°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.1	101.8
102.5°	125.6	125.6	125.7	125.9	125.7	125.6	125.6	125.4	125.1	124.8	124.3
105°	160.2	160.6	161.0	161.5	161.0	160.6	160.2	159.7	159.3	158.8	158.4
107.5°	196.3	196.3	196.2	196.2	196.2	196.3	196.3	196.3	196.1	195.6	195.3
110°	219.7	220.2	220.6	221.1	220.6	220.2	219.7	219.3	219.2	219.5	219.8



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	246.2	246.3	246.4	246.5	246.4	246.3	246.2	246.1	246.1	246.1	246.2
115°	286.3	286.2	286.1	285.9	286.1	286.2	286.3	286.5	286.6	286.8	287.0
117.5°	324.4	324.0	323.8	323.5	323.8	324.0	324.4	324.7	325.0	325.6	326.1
120°	351.2	351.5	351.8	352.0	351.8	351.5	351.2	350.9	351.2	351.9	352.6
122.5°	377.5	376.9	376.5	375.9	376.5	376.9	377.5	378.0	378.5	379.1	379.5
125°	417.9	417.5	417.2	417.0	417.2	417.5	417.9	418.1	418.4	418.7	419.0
127.5°	455.7	455.4	455.1	455.0	455.1	455.4	455.7	455.8	456.1	456.5	456.7
130°	481.6	481.0	480.4	479.8	480.4	481.0	481.6	482.1	482.6	482.9	483.2
132.5°	507.0	506.8	506.5	506.3	506.5	506.8	507.0	507.2	507.5	507.8	508.1
135°	544.0	543.6	543.1	542.7	543.1	543.6	544.0	544.5	544.8	545.1	545.4
137.5°	580.7	580.8	580.9	580.9	580.9	580.8	580.7	580.6	580.8	581.1	581.5
140°	604.7	604.5	604.4	604.2	604.4	604.5	604.7	604.8	604.9	605.1	605.3
142.5°	627.6	627.6	627.6	627.5	627.6	627.6	627.6	627.7	627.7	627.7	627.8
145°	660.5	660.0	659.6	659.2	659.6	660.0	660.5	660.9	661.2	661.4	661.6
147.5°	691.6	691.5	691.3	691.2	691.3	691.5	691.6	691.8	691.9	692.1	692.1
150°	711.2	711.1	711.0	710.8	711.0	711.1	711.2	711.4	711.5	711.5	711.5
152.5°	730.0	729.6	729.2	728.8	729.2	729.6	730.0	730.3	730.3	730.0	729.6
155°	755.5	755.0	754.4	753.9	754.4	755.0	755.5	756.2	756.2	755.5	755.0
157.5°	777.7	777.2	776.7	776.1	776.7	777.2	777.7	778.2	778.2	777.8	777.3
160°	791.1	790.3	789.6	788.9	789.6	790.3	791.1	791.8	792.0	791.6	791.1
162.5°	804.3	803.6	802.9	802.1	802.9	803.6	804.3	805.0	805.0	804.2	803.4
165°	821.1	820.5	819.9	819.3	819.9	820.5	821.1	821.7	821.5	820.6	819.7
167.5°	834.4	833.5	832.6	831.6	832.6	833.5	834.4	835.3	835.3	834.4	833.6
170°	841.6	840.6	839.5	838.6	839.5	840.6	841.6	842.7	842.8	841.9	841.0
172.5°	847.4	846.4	845.3	844.4	845.3	846.4	847.4	848.5	848.5	847.5	846.5
175°	853.5	852.5	851.5	850.4	851.5	852.5	853.5	854.5	854.5	853.5	852.5
177.5°	856.4	855.5	854.5	853.6	854.5	855.5	856.4	857.4	857.5	856.6	855.8
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	13.9	14.3	14.0	13.3	14.0	13.8	14.0	13.7	14.9	16.1	17.1
90°	15.4	14.5	13.4	12.2	11.1	9.9	8.5	6.9	5.3	3.6	2.0
92.5°	26.8	26.2	25.4	24.5	23.7	22.9	21.6	19.7	17.8	16.1	14.2
95°	50.7	50.3	49.3	48.2	47.2	46.2	45.0	43.7	42.4	41.0	39.7
97.5°	80.1	79.5	78.4	77.1	76.0	74.7	73.6	72.5	71.5	70.4	69.4
100°	101.6	101.3	100.0	98.6	97.3	95.9	95.0	94.4	93.8	93.3	92.6
102.5°	123.9	123.5	122.3	121.1	119.8	118.7	118.0	117.7	117.4	117.3	117.0
105°	157.9	157.5	156.9	156.3	155.8	155.2	154.8	154.6	154.5	154.4	154.2
107.5°	194.8	194.5	194.4	194.3	194.2	194.1	193.9	193.8	193.6	193.4	193.2
110°	220.1	220.3	220.5	220.7	220.8	221.0	220.9	220.6	220.3	220.0	219.7



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	246.3	246.3	246.6	246.8	247.1	247.4	247.4	247.4	247.4	247.3	247.3
115°	287.0	287.2	287.5	287.8	288.1	288.4	288.6	288.6	288.6	288.6	288.6
117.5°	326.5	327.1	327.3	327.5	327.7	327.9	328.0	327.8	327.7	327.6	327.4
120°	353.3	354.1	354.5	355.0	355.4	355.8	355.8	355.2	354.5	354.0	353.4
122.5°	380.0	380.6	380.8	380.9	381.2	381.4	381.4	381.1	380.8	380.7	380.4
125°	419.3	419.5	419.7	419.9	420.0	420.2	420.3	420.3	420.3	420.3	420.3
127.5°	457.0	457.4	457.5	457.8	458.0	458.3	458.2	457.7	457.3	456.8	456.4
130°	483.5	483.8	483.8	483.8	483.8	483.8	483.6	483.1	482.7	482.2	481.8
132.5°	508.4	508.6	508.8	508.9	509.0	509.2	509.1	508.7	508.4	508.1	507.7
135°	545.7	546.0	546.0	546.0	546.0	546.0	545.5	544.7	543.8	542.9	542.1
137.5°	581.8	582.3	582.0	581.8	581.6	581.3	581.0	580.6	580.1	579.8	579.3
140°	605.4	605.6	605.6	605.6	605.6	605.6	605.4	605.1	604.8	604.5	604.2
142.5°	627.8	627.8	627.9	628.0	628.1	628.3	628.2	627.9	627.6	627.3	627.0
145°	661.6	661.8	661.6	661.6	661.4	661.2	660.8	660.3	659.7	659.1	658.5
147.5°	692.2	692.4	692.5	692.6	692.8	692.9	692.6	691.9	691.2	690.5	689.7
150°	711.5	711.5	711.5	711.5	711.5	711.5	711.1	710.6	710.0	709.4	708.8
152.5°	729.2	728.9	728.8	728.7	728.5	728.4	728.3	727.9	727.5	727.2	726.8
155°	754.4	753.9	753.9	754.1	754.2	754.4	754.5	754.5	754.5	754.5	754.5
157.5°	776.9	776.4	776.5	776.5	776.5	776.6	776.7	776.9	777.2	777.5	777.8
160°	790.7	790.2	790.3	790.5	790.7	790.8	790.9	791.1	791.2	791.4	791.6
162.5°	802.6	801.8	802.0	802.2	802.3	802.5	802.7	803.1	803.4	803.9	804.2
165°	818.9	818.0	818.3	818.6	818.9	819.2	819.6	820.0	820.5	820.9	821.4
167.5°	832.7	831.8	831.7	831.7	831.7	831.6	832.0	832.6	833.2	833.8	834.4
170°	840.1	839.2	839.0	838.9	838.7	838.6	838.9	839.6	840.3	841.1	841.9
172.5°	845.5	844.5	844.5	844.5	844.4	844.4	844.6	845.3	845.9	846.5	847.1
175°	851.5	850.4	850.6	850.7	850.9	851.0	851.5	852.2	852.9	853.6	854.4
177.5°	855.0	854.2	854.2	854.2	854.2	854.2	854.4	855.1	855.6	856.2	856.8
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



TEST NUMBER: P333080-940

CATALOG NUMBER: S124RDIW-S1020D770U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	17.0	15.9	14.2	14.0	14.3	13.6	14.3	14.5	14.7	14.4	15.6
90°	3.6	5.3	6.9	8.5	9.9	11.1	12.2	13.4	14.5	15.4	16.3
92.5°	16.1	17.8	19.7	21.6	22.9	23.7	24.5	25.4	26.2	26.8	27.3
95°	41.0	42.4	43.7	45.0	46.2	47.2	48.2	49.3	50.3	50.7	51.2
97.5°	70.4	71.5	72.5	73.6	74.7	76.0	77.1	78.4	79.5	80.1	80.6
100°	93.3	93.8	94.4	95.0	95.9	97.3	98.6	100.0	101.3	101.6	101.8
102.5°	117.3	117.4	117.7	118.0	118.7	119.8	121.1	122.3	123.5	123.9	124.3
105°	154.4	154.5	154.6	154.8	155.2	155.8	156.3	156.9	157.5	157.9	158.4
107.5°	193.4	193.6	193.8	193.9	194.1	194.2	194.3	194.4	194.5	194.8	195.3
110°	220.0	220.3	220.6	220.9	221.0	220.8	220.7	220.5	220.3	220.1	219.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	247.3	247.4	247.4	247.4	247.4	247.1	246.8	246.6	246.3	246.3	246.2
115°	288.6	288.6	288.6	288.6	288.4	288.1	287.8	287.5	287.2	287.0	287.0
117.5°	327.6	327.7	327.8	328.0	327.9	327.7	327.5	327.3	327.1	326.5	326.1
120°	354.0	354.5	355.2	355.8	355.8	355.4	355.0	354.5	354.1	353.3	352.6
122.5°	380.7	380.8	381.1	381.4	381.4	381.2	380.9	380.8	380.6	380.0	379.5
125°	420.3	420.3	420.3	420.3	420.2	420.0	419.9	419.7	419.5	419.3	419.0
127.5°	456.8	457.3	457.7	458.2	458.3	458.0	457.8	457.5	457.4	457.0	456.7
130°	482.2	482.7	483.1	483.6	483.8	483.8	483.8	483.8	483.8	483.5	483.2
132.5°	508.1	508.4	508.7	509.1	509.2	509.0	508.9	508.8	508.6	508.4	508.1
135°	542.9	543.8	544.7	545.5	546.0	546.0	546.0	546.0	546.0	545.7	545.4
137.5°	579.8	580.1	580.6	581.0	581.3	581.6	581.8	582.0	582.3	581.8	581.5
140°	604.5	604.8	605.1	605.4	605.6	605.6	605.6	605.6	605.6	605.4	605.3
142.5°	627.3	627.6	627.9	628.2	628.3	628.1	628.0	627.9	627.8	627.8	627.8
145°	659.1	659.7	660.3	660.8	661.2	661.4	661.6	661.6	661.8	661.6	661.6
147.5°	690.5	691.2	691.9	692.6	692.9	692.8	692.6	692.5	692.4	692.2	692.1
150°	709.4	710.0	710.6	711.1	711.5	711.5	711.5	711.5	711.5	711.5	711.5
152.5°	727.2	727.5	727.9	728.3	728.4	728.5	728.7	728.8	728.9	729.2	729.6
155°	754.5	754.5	754.5	754.5	754.4	754.2	754.1	753.9	753.9	754.4	755.0
157.5°	777.5	777.2	776.9	776.7	776.6	776.5	776.5	776.5	776.4	776.9	777.3
160°	791.4	791.2	791.1	790.9	790.8	790.7	790.5	790.3	790.2	790.7	791.1
162.5°	803.9	803.4	803.1	802.7	802.5	802.3	802.2	802.0	801.8	802.6	803.4
165°	820.9	820.5	820.0	819.6	819.2	818.9	818.6	818.3	818.0	818.9	819.7
167.5°	833.8	833.2	832.6	832.0	831.6	831.7	831.7	831.7	831.8	832.7	833.6
170°	841.1	840.3	839.6	838.9	838.6	838.7	838.9	839.0	839.2	840.1	841.0
172.5°	846.5	845.9	845.3	844.6	844.4	844.4	844.5	844.5	844.5	845.5	846.5
175°	853.6	852.9	852.2	851.5	851.0	850.9	850.7	850.6	850.4	851.5	852.5
177.5°	856.2	855.6	855.1	854.4	854.2	854.2	854.2	854.2	854.2	855.0	855.8
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	14.8	14.4	15.1	14.6	14.7	14.3	14.8
90°	17.2	18.1	18.6	19.0	19.3	19.5	19.9
92.5°	27.8	28.4	28.7	28.9	29.1	29.2	29.4
95°	51.6	52.1	52.3	52.3	52.3	52.3	52.3
97.5°	81.1	81.7	81.9	81.9	81.9	81.9	81.9
100°	102.1	102.5	102.5	102.5	102.5	102.5	102.5
102.5°	124.8	125.1	125.4	125.6	125.6	125.7	125.9
105°	158.8	159.3	159.7	160.2	160.6	161.0	161.5
107.5°	195.6	196.1	196.3	196.3	196.3	196.2	196.2
110°	219.5	219.2	219.3	219.7	220.2	220.6	221.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	246.1	246.1	246.1	246.2	246.3	246.4	246.5
115°	286.8	286.6	286.5	286.3	286.2	286.1	285.9
117.5°	325.6	325.0	324.7	324.4	324.0	323.8	323.5
120°	351.9	351.2	350.9	351.2	351.5	351.8	352.0
122.5°	379.1	378.5	378.0	377.5	376.9	376.5	375.9
125°	418.7	418.4	418.1	417.9	417.5	417.2	417.0
127.5°	456.5	456.1	455.8	455.7	455.4	455.1	455.0
130°	482.9	482.6	482.1	481.6	481.0	480.4	479.8
132.5°	507.8	507.5	507.2	507.0	506.8	506.5	506.3
135°	545.1	544.8	544.5	544.0	543.6	543.1	542.7
137.5°	581.1	580.8	580.6	580.7	580.8	580.9	580.9
140°	605.1	604.9	604.8	604.7	604.5	604.4	604.2
142.5°	627.7	627.7	627.7	627.6	627.6	627.6	627.5
145°	661.4	661.2	660.9	660.5	660.0	659.6	659.2
147.5°	692.1	691.9	691.8	691.6	691.5	691.3	691.2
150°	711.5	711.5	711.4	711.2	711.1	711.0	710.8
152.5°	730.0	730.3	730.3	730.0	729.6	729.2	728.8
155°	755.5	756.2	756.2	755.5	755.0	754.4	753.9
157.5°	777.8	778.2	778.2	777.7	777.2	776.7	776.1
160°	791.6	792.0	791.8	791.1	790.3	789.6	788.9
162.5°	804.2	805.0	805.0	804.3	803.6	802.9	802.1
165°	820.6	821.5	821.7	821.1	820.5	819.9	819.3
167.5°	834.4	835.3	835.3	834.4	833.5	832.6	831.6
170°	841.9	842.8	842.7	841.6	840.6	839.5	838.6
172.5°	847.5	848.5	848.5	847.4	846.4	845.3	844.4
175°	853.5	854.5	854.5	853.5	852.5	851.5	850.4
177.5°	856.6	857.5	857.4	856.4	855.5	854.5	853.6
180°	855.7	855.7	855.7	855.7	855.7	855.7	855.7

(END OF REPORT)