

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: P332968-940

Luminaire Tested: **S124RDIP-S1020D810U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332968-940  
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: S124RDIP-S1020D810U940-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6371.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 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

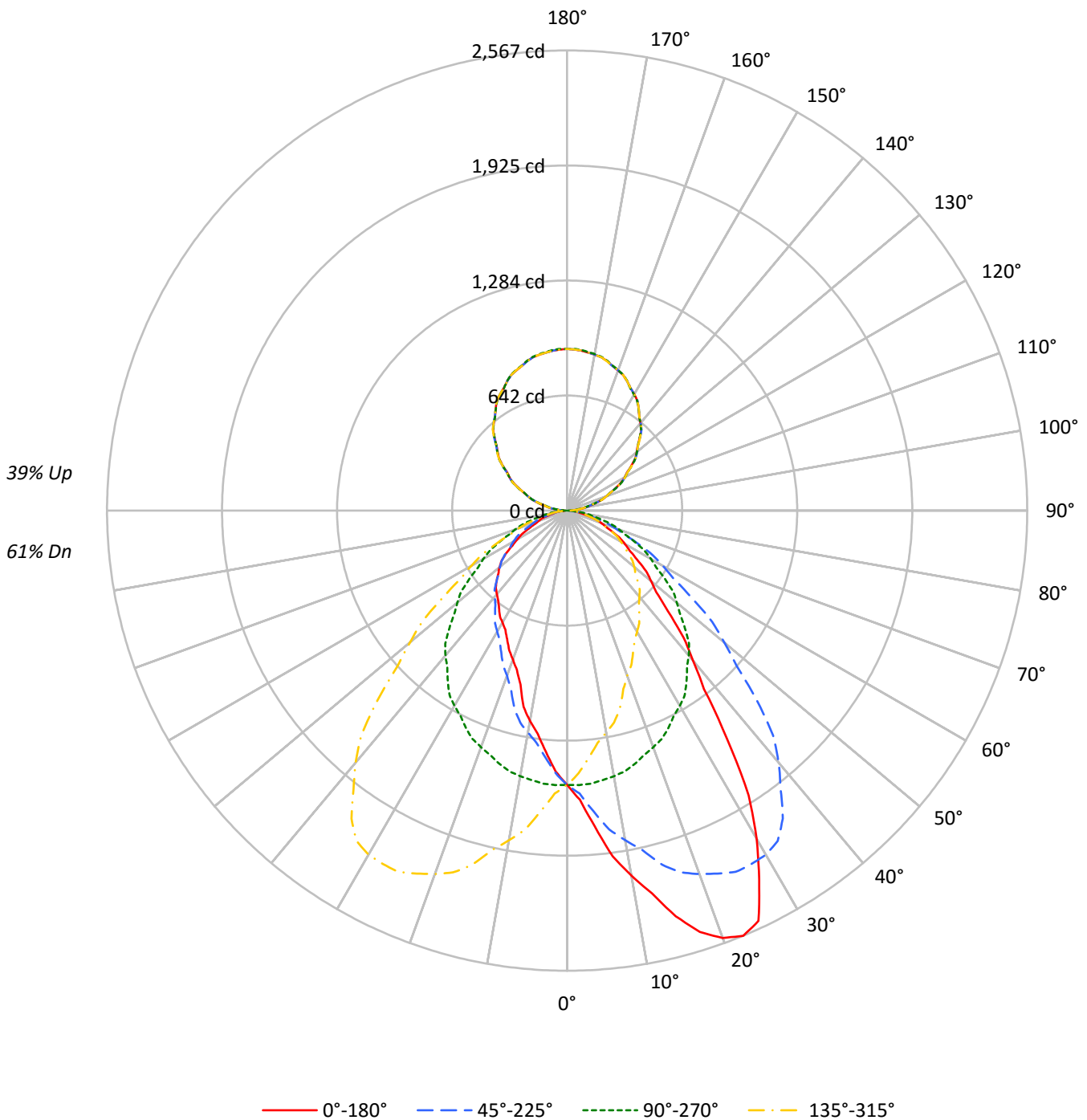
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	54	51	48	47	44	42	38
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	39	37	33
5	71	60	52	46	67	57	49	44	50	44	40	44	40	36	39	35	32	29
6	66	54	46	40	62	51	44	38	45	39	35	40	35	32	35	31	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	28	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17

**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	2.3
10°-20°	447.2	7.0
20°-30°	699.4	11.0
30°-40°	777.5	12.2
40°-50°	689.9	10.8
50°-60°	537.6	8.4
60°-70°	351.9	5.5
70°-80°	173.1	2.7
80°-90°	45.4	0.7
90°-100°	59.5	0.9
100°-110°	176.1	2.8
110°-120°	298.9	4.7
120°-130°	394.2	6.2
130°-140°	442.7	6.9
140°-150°	435.0	6.8
150°-160°	365.9	5.7
160°-170°	243.4	3.8
170°-180°	85.2	1.3
0°-30°	1294.9	20.3
0°-40°	2072.4	32.5
0°-60°	3299.8	51.8
0°-90°	3870.2	60.7
90°-120°	534.5	8.4
90°-150°	1806.3	28.4
90°-180°	2501.0	39.3
0°-180°	6371.0	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°	21	2	21	2	21	12
95°	55	42	55	42	55	57
105°	170	162	170	162	170	179
115°	301	304	301	304	301	298
125°	439	443	439	443	439	392
135°	572	571	572	571	572	441
145°	694	694	694	694	694	435
155°	794	795	794	795	794	366
165°	863	865	863	865	863	243
175°	896	900	896	900	896	85
180°	901	901	901	901	901	



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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°	15.1	14.4	14.9	14.8	15.2	14.6	15.0	15.8	14.6	14.9	14.6
90°	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2	16.2	15.3	14.1
92.5°	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7	28.2	27.6	26.8
95°	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9	53.4	53.0	51.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9	84.4	83.8	82.5
100°	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3	107.0	106.6	105.2
102.5°	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0	130.5	130.1	128.9
105°	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8	166.4	165.9	165.3
107.5°	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7	205.3	204.8	204.7
110°	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5	231.8	232.1	232.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3	259.4	259.5	259.8
115°	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2	302.4	302.6	302.8
117.5°	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5	344.0	344.6	344.7
120°	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4	372.2	373.0	373.4
122.5°	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8	400.3	400.8	401.1
125°	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4	441.7	442.0	442.1
127.5°	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1	481.4	481.7	482.0
130°	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0	509.3	509.6	509.6
132.5°	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2	535.5	535.8	535.9
135°	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5	574.8	575.2	575.2
137.5°	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5	613.0	613.3	613.1
140°	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6	637.8	637.8	637.8
142.5°	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2	661.3	661.3	661.4
145°	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8	697.0	697.1	697.0
147.5°	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1	729.2	729.3	729.4
150°	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6	768.2	767.9	767.7
155°	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2	794.6	794.1	794.2
157.5°	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8	818.3	817.9	817.9
160°	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3	832.9	832.4	832.5
162.5°	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3	845.5	844.6	844.8
165°	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5	862.6	861.7	861.9
167.5°	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0	877.1	876.1	876.1
170°	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8	884.8	884.0	883.8
172.5°	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6	890.6	889.6	889.5
175°	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0	896.9	895.8	896.0
177.5°	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4	900.5	899.7	899.7
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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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°	14.4	13.6	14.4	14.1	14.3	15.9	17.0	17.2	16.1	14.9	13.7
90°	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1	3.8	5.5	7.2
92.5°	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9	16.9	18.8	20.8
95°	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8	43.2	44.6	46.0
97.5°	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0	74.2	75.3	76.4
100°	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6	98.2	98.8	99.4
102.5°	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2	123.5	123.8	124.0
105°	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5	162.6	162.7	162.9
107.5°	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6	203.8	203.9	204.1
110°	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5	231.8	232.0	232.4





TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5	260.5	260.6	260.6
115°	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
117.5°	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9	345.1	345.2	345.3
120°	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3	372.9	373.5	374.2
122.5°	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7	400.9	401.2	401.4
125°	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7	481.2	481.7	482.1
130°	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5	508.0	508.5	508.9
132.5°	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8	535.2	535.6	535.8
135°	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0	571.9	572.8	573.7
137.5°	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3	610.7	611.1	611.5
140°	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5	636.8	637.1	637.4
142.5°	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5	660.8	661.1	661.4
145°	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7	694.3	694.9	695.5
147.5°	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6	727.3	728.0	728.8
150°	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6	747.3	747.9	748.5
152.5°	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6	766.0	766.3	766.7
155°	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7
157.5°	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3	818.9	818.7	818.4
160°	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7	833.6	833.5	833.3
162.5°	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1	846.8	846.3	846.0
165°	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1	864.7	864.2	863.7
167.5°	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0	878.2	877.6	877.0
170°	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7	886.0	885.2	884.4
172.5°	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3	891.7	891.0	890.4
175°	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0	899.2	898.4	897.7
177.5°	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5	901.9	901.3	900.6
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-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°	14.1	13.9	14.2	13.5	14.2	14.4	14.1	14.3	15.0	14.2	14.3
90°	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2	18.1	19.1	19.7
92.5°	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7	29.2	29.9	30.2
95°	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9	54.4	54.8	55.1
97.5°	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9	85.4	86.1	86.3
100°	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3	107.6	107.9	108.1
102.5°	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0	131.3	131.8	132.1
105°	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8	167.3	167.7	168.3
107.5°	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7	206.1	206.5	206.8
110°	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5	231.2	230.9	231.0



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3	259.3	259.2	259.2
115°	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2	302.1	301.9	301.8
117.5°	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5	343.0	342.4	342.0
120°	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4	370.6	369.9	369.6
122.5°	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8	399.3	398.8	398.2
125°	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4	441.0	440.8	440.4
127.5°	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1	480.8	480.5	480.2
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0	508.6	508.4	507.9
132.5°	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2	534.8	534.6	534.3
135°	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5	574.2	573.9	573.5
137.5°	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5	612.2	611.7	611.5
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6	637.4	637.2	637.1
142.5°	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2	661.2	661.2	661.1
145°	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8	696.7	696.5	696.2
147.5°	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1	729.0	728.8	728.7
150°	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.3
152.5°	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6	768.9	769.3	769.3
155°	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2	795.9	796.5	796.5
157.5°	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8	819.3	819.7	819.7
160°	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3	833.7	834.2	834.1
162.5°	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3	847.1	848.0	848.0
165°	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5	864.4	865.4	865.5
167.5°	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0	879.0	879.9	879.9
170°	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8	886.7	887.7	887.6
172.5°	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6	892.7	893.8	893.8
175°	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0	899.0	900.2	900.2
177.5°	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4	902.3	903.2	903.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-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°	15.3	14.9	14.4	15.1	14.4	14.9	15.3	14.3	14.2	15.0	14.3
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.1	18.1	17.2
92.5°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.2	29.9	29.2	28.7
95°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	54.8	54.4	53.9
97.5°	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.1	85.4	84.9
100°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	107.9	107.6	107.3
102.5°	132.2	132.3	132.5	132.6	132.5	132.3	132.2	132.1	131.8	131.3	131.0
105°	168.7	169.2	169.6	170.1	169.6	169.2	168.7	168.3	167.7	167.3	166.8
107.5°	206.7	206.7	206.7	206.6	206.7	206.7	206.7	206.8	206.5	206.1	205.7
110°	231.5	231.9	232.4	232.8	232.4	231.9	231.5	231.0	230.9	231.2	231.5



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	259.3	259.4	259.5	259.6	259.5	259.4	259.3	259.2	259.2	259.3	259.3
115°	301.7	301.5	301.3	301.1	301.3	301.5	301.7	301.8	301.9	302.1	302.2
117.5°	341.7	341.3	341.1	340.7	341.1	341.3	341.7	342.0	342.4	343.0	343.5
120°	370.0	370.2	370.6	370.9	370.6	370.2	370.0	369.6	369.9	370.6	371.4
122.5°	397.6	397.1	396.5	396.0	396.5	397.1	397.6	398.2	398.8	399.3	399.8
125°	440.1	439.8	439.5	439.2	439.5	439.8	440.1	440.4	440.8	441.0	441.4
127.5°	479.9	479.7	479.5	479.2	479.5	479.7	479.9	480.2	480.5	480.8	481.1
130°	507.3	506.7	506.0	505.4	506.0	506.7	507.3	507.9	508.4	508.6	509.0
132.5°	534.0	533.8	533.5	533.3	533.5	533.8	534.0	534.3	534.6	534.8	535.2
135°	573.0	572.6	572.1	571.7	572.1	572.6	573.0	573.5	573.9	574.2	574.5
137.5°	611.6	611.7	611.8	612.0	611.8	611.7	611.6	611.5	611.7	612.2	612.5
140°	636.9	636.8	636.6	636.5	636.6	636.8	636.9	637.1	637.2	637.4	637.6
142.5°	661.1	661.1	661.0	661.0	661.0	661.1	661.1	661.1	661.2	661.2	661.2
145°	695.7	695.3	694.8	694.4	694.8	695.3	695.7	696.2	696.5	696.7	696.8
147.5°	728.5	728.3	728.3	728.1	728.3	728.3	728.5	728.7	728.8	729.0	729.1
150°	749.2	749.0	748.9	748.7	748.9	749.0	749.2	749.3	749.4	749.4	749.4
152.5°	768.9	768.5	768.1	767.7	768.1	768.5	768.9	769.3	769.3	768.9	768.6
155°	795.9	795.2	794.6	794.1	794.6	795.2	795.9	796.5	796.5	795.9	795.2
157.5°	819.2	818.7	818.1	817.6	818.1	818.7	819.2	819.7	819.7	819.3	818.8
160°	833.3	832.5	831.8	831.0	831.8	832.5	833.3	834.1	834.2	833.7	833.3
162.5°	847.2	846.5	845.7	844.9	845.7	846.5	847.2	848.0	848.0	847.1	846.3
165°	864.9	864.2	863.6	863.1	863.6	864.2	864.9	865.5	865.4	864.4	863.5
167.5°	878.9	877.9	877.0	876.0	877.0	877.9	878.9	879.9	879.9	879.0	878.0
170°	886.5	885.5	884.3	883.2	884.3	885.5	886.5	887.6	887.7	886.7	885.8
172.5°	892.7	891.5	890.5	889.4	890.5	891.5	892.7	893.8	893.8	892.7	891.6
175°	899.0	898.0	896.9	895.8	896.9	898.0	899.0	900.2	900.2	899.0	898.0
177.5°	902.1	901.2	900.2	899.1	900.2	901.2	902.1	903.1	903.2	902.3	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-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°	14.1	14.4	14.2	13.5	14.2	13.9	14.1	13.7	14.9	16.1	17.2
90°	16.2	15.3	14.1	12.8	11.6	10.3	8.9	7.2	5.5	3.8	2.1
92.5°	28.2	27.6	26.8	25.9	25.0	24.2	22.7	20.8	18.8	16.9	14.9
95°	53.4	53.0	51.9	50.8	49.8	48.7	47.4	46.0	44.6	43.2	41.8
97.5°	84.4	83.8	82.5	81.2	80.0	78.7	77.5	76.4	75.3	74.2	73.0
100°	107.0	106.6	105.2	103.9	102.5	101.1	100.0	99.4	98.8	98.2	97.6
102.5°	130.5	130.1	128.9	127.5	126.3	125.0	124.2	124.0	123.8	123.5	123.2
105°	166.4	165.9	165.3	164.7	164.1	163.5	163.1	162.9	162.7	162.6	162.5
107.5°	205.3	204.8	204.7	204.6	204.6	204.5	204.3	204.1	203.9	203.8	203.6
110°	231.8	232.1	232.3	232.5	232.6	232.7	232.6	232.4	232.0	231.8	231.5



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	259.4	259.5	259.8	260.0	260.3	260.6	260.7	260.6	260.6	260.5	260.5
115°	302.4	302.6	302.8	303.2	303.4	303.8	304.0	304.0	304.0	304.0	304.0
117.5°	344.0	344.6	344.7	344.9	345.2	345.4	345.4	345.3	345.2	345.1	344.9
120°	372.2	373.0	373.4	373.9	374.3	374.8	374.8	374.2	373.5	372.9	372.3
122.5°	400.3	400.8	401.1	401.3	401.5	401.7	401.7	401.4	401.2	400.9	400.7
125°	441.7	442.0	442.1	442.3	442.5	442.6	442.6	442.6	442.6	442.6	442.6
127.5°	481.4	481.7	482.0	482.2	482.4	482.7	482.6	482.1	481.7	481.2	480.7
130°	509.3	509.6	509.6	509.6	509.6	509.6	509.3	508.9	508.5	508.0	507.5
132.5°	535.5	535.8	535.9	536.1	536.2	536.3	536.2	535.8	535.6	535.2	534.8
135°	574.8	575.2	575.2	575.2	575.2	575.2	574.7	573.7	572.8	571.9	571.0
137.5°	613.0	613.3	613.1	612.9	612.6	612.3	612.0	611.5	611.1	610.7	610.3
140°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.4	637.1	636.8	636.5
142.5°	661.3	661.3	661.4	661.6	661.6	661.8	661.7	661.4	661.1	660.8	660.5
145°	697.0	697.1	697.0	696.8	696.7	696.5	696.2	695.5	694.9	694.3	693.7
147.5°	729.2	729.3	729.4	729.6	729.7	729.9	729.5	728.8	728.0	727.3	726.6
150°	749.4	749.4	749.4	749.4	749.4	749.4	749.1	748.5	747.9	747.3	746.6
152.5°	768.2	767.9	767.7	767.6	767.4	767.3	767.0	766.7	766.3	766.0	765.6
155°	794.6	794.1	794.2	794.3	794.5	794.6	794.7	794.7	794.7	794.7	794.7
157.5°	818.3	817.9	817.9	818.0	818.0	818.0	818.1	818.4	818.7	818.9	819.3
160°	832.9	832.4	832.5	832.7	832.9	832.9	833.1	833.3	833.5	833.6	833.7
162.5°	845.5	844.6	844.8	845.0	845.1	845.3	845.5	846.0	846.3	846.8	847.1
165°	862.6	861.7	861.9	862.3	862.6	862.9	863.3	863.7	864.2	864.7	865.1
167.5°	877.1	876.1	876.1	876.1	876.0	876.0	876.4	877.0	877.6	878.2	879.0
170°	884.8	884.0	883.8	883.7	883.5	883.3	883.7	884.4	885.2	886.0	886.7
172.5°	890.6	889.6	889.5	889.5	889.5	889.4	889.7	890.4	891.0	891.7	892.3
175°	896.9	895.8	896.0	896.1	896.3	896.4	896.9	897.7	898.4	899.2	900.0
177.5°	900.5	899.7	899.7	899.7	899.7	899.7	900.0	900.6	901.3	901.9	902.5
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



TEST NUMBER: P332968-940

CATALOG NUMBER: S124RDIP-S1020D810U940-4F0-1E-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	14.3	14.1	14.4	13.6	14.4	14.6	14.9	14.6	15.8
90°	3.8	5.5	7.2	8.9	10.3	11.6	12.8	14.1	15.3	16.2	17.2
92.5°	16.9	18.8	20.8	22.7	24.2	25.0	25.9	26.8	27.6	28.2	28.7
95°	43.2	44.6	46.0	47.4	48.7	49.8	50.8	51.9	53.0	53.4	53.9
97.5°	74.2	75.3	76.4	77.5	78.7	80.0	81.2	82.5	83.8	84.4	84.9
100°	98.2	98.8	99.4	100.0	101.1	102.5	103.9	105.2	106.6	107.0	107.3
102.5°	123.5	123.8	124.0	124.2	125.0	126.3	127.5	128.9	130.1	130.5	131.0
105°	162.6	162.7	162.9	163.1	163.5	164.1	164.7	165.3	165.9	166.4	166.8
107.5°	203.8	203.9	204.1	204.3	204.5	204.6	204.6	204.7	204.8	205.3	205.7
110°	231.8	232.0	232.4	232.6	232.7	232.6	232.5	232.3	232.1	231.8	231.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.5	260.6	260.6	260.7	260.6	260.3	260.0	259.8	259.5	259.4	259.3
115°	304.0	304.0	304.0	304.0	303.8	303.4	303.2	302.8	302.6	302.4	302.2
117.5°	345.1	345.2	345.3	345.4	345.4	345.2	344.9	344.7	344.6	344.0	343.5
120°	372.9	373.5	374.2	374.8	374.8	374.3	373.9	373.4	373.0	372.2	371.4
122.5°	400.9	401.2	401.4	401.7	401.7	401.5	401.3	401.1	400.8	400.3	399.8
125°	442.6	442.6	442.6	442.6	442.6	442.5	442.3	442.1	442.0	441.7	441.4
127.5°	481.2	481.7	482.1	482.6	482.7	482.4	482.2	482.0	481.7	481.4	481.1
130°	508.0	508.5	508.9	509.3	509.6	509.6	509.6	509.6	509.6	509.3	509.0
132.5°	535.2	535.6	535.8	536.2	536.3	536.2	536.1	535.9	535.8	535.5	535.2
135°	571.9	572.8	573.7	574.7	575.2	575.2	575.2	575.2	575.2	574.8	574.5
137.5°	610.7	611.1	611.5	612.0	612.3	612.6	612.9	613.1	613.3	613.0	612.5
140°	636.8	637.1	637.4	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.6
142.5°	660.8	661.1	661.4	661.7	661.8	661.6	661.6	661.4	661.3	661.3	661.2
145°	694.3	694.9	695.5	696.2	696.5	696.7	696.8	697.0	697.1	697.0	696.8
147.5°	727.3	728.0	728.8	729.5	729.9	729.7	729.6	729.4	729.3	729.2	729.1
150°	747.3	747.9	748.5	749.1	749.4	749.4	749.4	749.4	749.4	749.4	749.4
152.5°	766.0	766.3	766.7	767.0	767.3	767.4	767.6	767.7	767.9	768.2	768.6
155°	794.7	794.7	794.7	794.7	794.6	794.5	794.3	794.2	794.1	794.6	795.2
157.5°	818.9	818.7	818.4	818.1	818.0	818.0	818.0	817.9	817.9	818.3	818.8
160°	833.6	833.5	833.3	833.1	832.9	832.9	832.7	832.5	832.4	832.9	833.3
162.5°	846.8	846.3	846.0	845.5	845.3	845.1	845.0	844.8	844.6	845.5	846.3
165°	864.7	864.2	863.7	863.3	862.9	862.6	862.3	861.9	861.7	862.6	863.5
167.5°	878.2	877.6	877.0	876.4	876.0	876.0	876.1	876.1	876.1	877.1	878.0
170°	886.0	885.2	884.4	883.7	883.3	883.5	883.7	883.8	884.0	884.8	885.8
172.5°	891.7	891.0	890.4	889.7	889.4	889.5	889.5	889.5	889.6	890.6	891.6
175°	899.2	898.4	897.7	896.9	896.4	896.3	896.1	896.0	895.8	896.9	898.0
177.5°	901.9	901.3	900.6	900.0	899.7	899.7	899.7	899.7	899.7	900.5	901.4
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3



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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°	15.0	14.6	15.2	14.8	14.9	14.4	15.1
90°	18.1	19.1	19.7	20.0	20.3	20.6	21.0
92.5°	29.2	29.9	30.2	30.4	30.6	30.8	30.9
95°	54.4	54.8	55.1	55.1	55.1	55.1	55.1
97.5°	85.4	86.1	86.3	86.3	86.3	86.3	86.3
100°	107.6	107.9	108.1	108.1	108.1	108.1	108.1
102.5°	131.3	131.8	132.1	132.2	132.3	132.5	132.6
105°	167.3	167.7	168.3	168.7	169.2	169.6	170.1
107.5°	206.1	206.5	206.8	206.7	206.7	206.7	206.6
110°	231.2	230.9	231.0	231.5	231.9	232.4	232.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	259.3	259.2	259.2	259.3	259.4	259.5	259.6
115°	302.1	301.9	301.8	301.7	301.5	301.3	301.1
117.5°	343.0	342.4	342.0	341.7	341.3	341.1	340.7
120°	370.6	369.9	369.6	370.0	370.2	370.6	370.9
122.5°	399.3	398.8	398.2	397.6	397.1	396.5	396.0
125°	441.0	440.8	440.4	440.1	439.8	439.5	439.2
127.5°	480.8	480.5	480.2	479.9	479.7	479.5	479.2
130°	508.6	508.4	507.9	507.3	506.7	506.0	505.4
132.5°	534.8	534.6	534.3	534.0	533.8	533.5	533.3
135°	574.2	573.9	573.5	573.0	572.6	572.1	571.7
137.5°	612.2	611.7	611.5	611.6	611.7	611.8	612.0
140°	637.4	637.2	637.1	636.9	636.8	636.6	636.5
142.5°	661.2	661.2	661.1	661.1	661.1	661.0	661.0
145°	696.7	696.5	696.2	695.7	695.3	694.8	694.4
147.5°	729.0	728.8	728.7	728.5	728.3	728.3	728.1
150°	749.4	749.4	749.3	749.2	749.0	748.9	748.7
152.5°	768.9	769.3	769.3	768.9	768.5	768.1	767.7
155°	795.9	796.5	796.5	795.9	795.2	794.6	794.1
157.5°	819.3	819.7	819.7	819.2	818.7	818.1	817.6
160°	833.7	834.2	834.1	833.3	832.5	831.8	831.0
162.5°	847.1	848.0	848.0	847.2	846.5	845.7	844.9
165°	864.4	865.4	865.5	864.9	864.2	863.6	863.1
167.5°	879.0	879.9	879.9	878.9	877.9	877.0	876.0
170°	886.7	887.7	887.6	886.5	885.5	884.3	883.2
172.5°	892.7	893.8	893.8	892.7	891.5	890.5	889.4
175°	899.0	900.2	900.2	899.0	898.0	896.9	895.8
177.5°	902.3	903.2	903.1	902.1	901.2	900.2	899.1
180°	901.3	901.3	901.3	901.3	901.3	901.3	901.3

(END OF REPORT)