

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: P332968-830

Luminaire Tested: **S124RDIP-S1020D810U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332968-830  
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-S1020D810U830-4F0-1E-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**

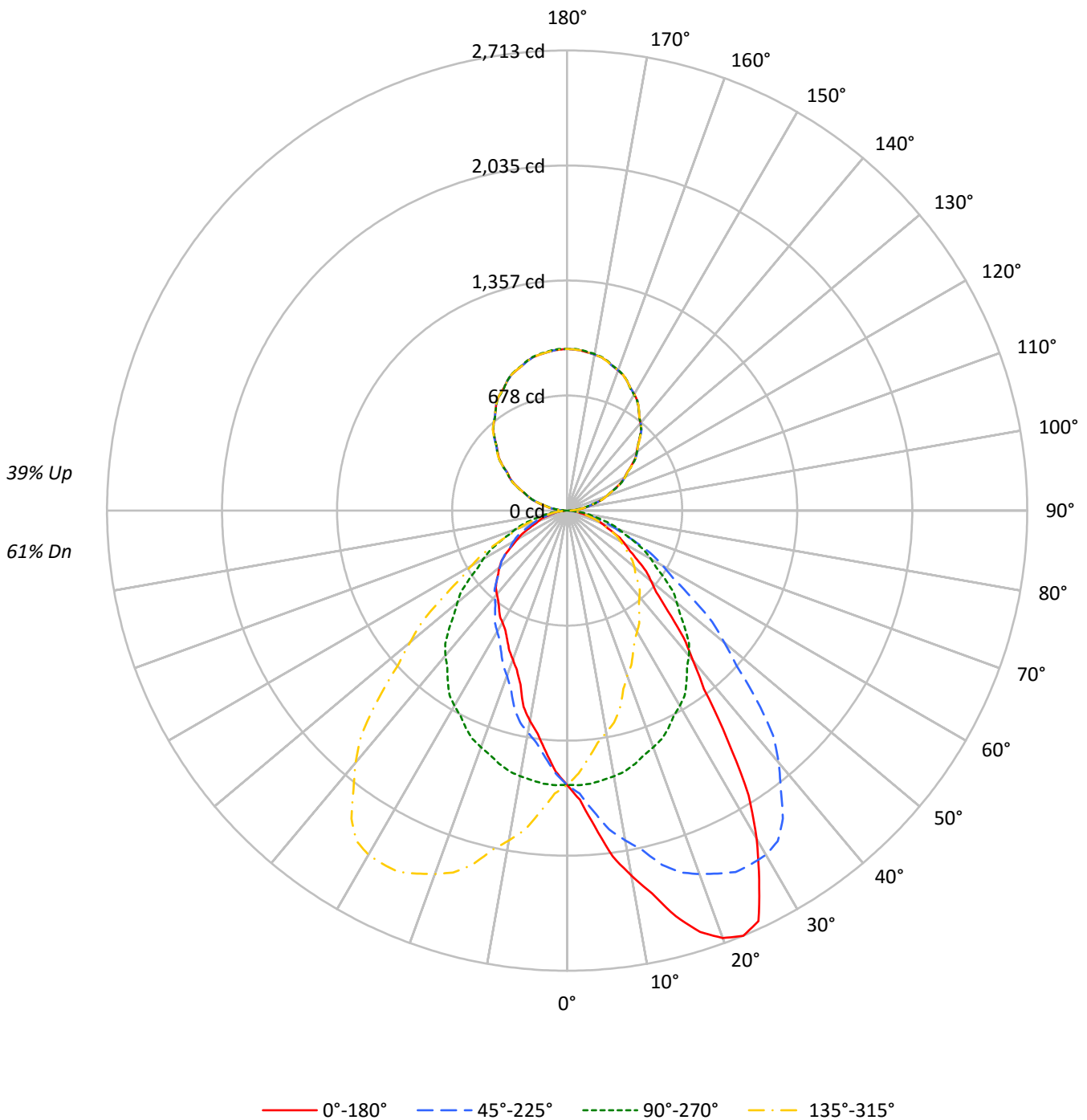
Lumens per Lamp: N/A  
Luminaire Lumens: 6734.2 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (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°	13056	13056	13056	13056
5°	15144	13095	11574	13095
10°	17915	13038	10330	13038
15°	20695	12918	8877	12918
20°	23040	12752	8027	12752
25°	23785	12588	7452	12588
30°	20821	12392	7106	12392
35°	16208	12098	6897	12098
40°	12154	11763	6785	11763
45°	9597	11226	6725	11226
50°	8102	10605	6531	10605
55°	7061	9923	6180	9923
60°	6353	9216	5470	9216
65°	5601	8451	4705	8451
70°	5044	7659	4244	7659
75°	4226	6787	3618	6787
80°	3575	5783	3394	5783
85°	3020	4520	3020	4520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	2.3
10°-20°	472.7	7.0
20°-30°	739.3	11.0
30°-40°	821.9	12.2
40°-50°	729.2	10.8
50°-60°	568.2	8.4
60°-70°	372.0	5.5
70°-80°	182.9	2.7
80°-90°	48.0	0.7
90°-100°	62.8	0.9
100°-110°	186.2	2.8
110°-120°	316.0	4.7
120°-130°	416.6	6.2
130°-140°	467.9	6.9
140°-150°	459.8	6.8
150°-160°	386.7	5.7
160°-170°	257.3	3.8
170°-180°	90.1	1.3
0°-30°	1368.7	20.3
0°-40°	2190.5	32.5
0°-60°	3487.9	51.8
0°-90°	4090.8	60.7
90°-120°	565.0	8.4
90°-150°	1909.3	28.4
90°-180°	2643.0	39.2
0°-180°	6734.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1617	1617	1617	1617	1617	
5°	1869	1616	1428	1616	1869	189
15°	2476	1546	1062	1546	2476	704
25°	2670	1413	837	1413	2670	1185
35°	1645	1228	700	1228	1645	1031
45°	841	983	589	983	841	666
55°	502	705	439	705	502	456
65°	293	442	246	442	293	295
75°	136	218	116	218	136	149
85°	33	49	33	49	33	37
90°	22	2	22	2	22	13
95°	58	44	58	44	58	61
105°	180	172	180	172	180	189
115°	318	321	318	321	318	315
125°	464	468	464	468	464	414
135°	604	604	604	604	604	467
145°	734	733	734	733	734	459
155°	839	840	839	840	839	386
165°	912	914	912	914	912	257
175°	947	951	947	951	947	90
180°	953	953	953	953	953	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1705.8	1710.5	1705.8	1705.3	1700.2	1698.6	1696.5	1689.7	1677.2	1669.9	1671.4
5°	1868.8	1885.0	1875.9	1874.6	1860.3	1846.0	1836.8	1816.0	1793.8	1778.9	1766.4
7.5°	2057.2	2066.5	2060.9	2051.7	2028.5	2015.3	1994.2	1966.7	1927.0	1896.6	1868.9
10°	2185.4	2193.2	2190.7	2173.7	2156.7	2122.2	2102.6	2064.3	2014.0	1974.3	1937.1
12.5°	2311.6	2319.9	2297.0	2297.7	2265.7	2238.4	2207.4	2159.1	2101.1	2049.8	2003.4
15°	2476.1	2465.6	2465.6	2452.6	2416.7	2379.0	2347.0	2296.2	2223.2	2161.9	2097.4
17.5°	2604.8	2608.4	2603.1	2572.3	2544.2	2505.1	2446.6	2387.3	2319.5	2237.3	2171.3
20°	2681.9	2681.9	2676.1	2655.2	2618.8	2577.0	2513.9	2449.3	2363.3	2280.6	2206.3
22.5°	2713.2	2715.3	2708.4	2691.1	2658.3	2617.6	2563.8	2498.3	2409.7	2316.5	2224.5
25°	2670.2	2682.6	2683.9	2679.3	2669.6	2644.8	2598.5	2531.4	2451.9	2350.9	2251.8
27.5°	2451.6	2467.2	2480.9	2503.4	2533.4	2549.0	2551.1	2517.0	2447.6	2350.4	2250.7
30°	2233.6	2246.6	2289.1	2344.4	2387.4	2426.5	2460.4	2469.5	2430.4	2343.1	2238.2
32.5°	1991.8	2009.5	2051.8	2111.4	2183.0	2249.3	2325.3	2364.2	2363.1	2310.7	2213.7
35°	1644.6	1657.6	1696.8	1759.3	1845.3	1943.7	2064.3	2158.0	2221.9	2217.3	2158.0
37.5°	1326.3	1341.0	1380.5	1432.5	1515.9	1637.7	1754.4	1883.6	2001.7	2068.0	2048.1
40°	1153.3	1154.0	1192.4	1245.9	1324.0	1430.2	1557.3	1700.6	1832.2	1939.8	1960.6
42.5°	1016.7	1016.8	1042.3	1099.9	1156.2	1256.1	1377.4	1519.8	1673.8	1798.0	1853.2
45°	840.6	846.4	867.2	901.8	946.1	1030.8	1127.8	1260.2	1432.9	1580.1	1672.0
47.5°	711.8	720.4	733.7	761.9	797.1	853.6	933.9	1052.7	1193.2	1355.2	1485.9
50°	645.1	646.4	663.3	678.9	709.5	754.5	824.9	924.0	1052.9	1208.7	1354.0
52.5°	587.8	587.5	597.7	617.5	642.3	677.4	734.2	824.3	938.8	1078.4	1228.3
55°	501.7	505.0	512.8	528.4	547.3	572.1	617.1	684.9	774.8	894.0	1030.2
57.5°	436.3	438.0	444.1	450.7	468.1	486.1	519.8	566.8	642.7	740.4	867.2
60°	393.5	394.2	396.2	406.0	419.6	436.6	459.4	499.1	563.0	652.2	752.6
62.5°	351.9	353.0	356.0	363.2	373.7	385.5	409.3	441.3	494.2	570.4	660.8
65°	293.2	293.9	298.4	301.0	309.5	319.9	337.5	359.0	395.5	459.4	527.8
67.5°	245.0	245.0	245.2	248.7	254.7	261.6	272.1	289.3	316.8	356.0	416.3
70°	213.7	213.7	215.0	217.0	220.3	226.1	232.0	245.0	265.2	297.1	343.4
72.5°	184.5	185.0	186.3	186.7	188.4	193.2	197.6	205.9	220.9	245.0	282.4
75°	135.5	137.5	140.7	143.4	146.6	146.0	150.5	155.7	160.3	174.7	196.1
77.5°	100.9	99.8	100.2	102.5	102.8	103.5	106.7	110.7	114.1	120.9	128.7
80°	76.9	76.9	78.8	79.5	78.8	79.5	82.8	84.7	86.1	88.6	95.8
82.5°	58.2	59.2	58.5	59.2	59.6	60.2	63.0	63.3	64.7	65.7	68.7
85°	32.6	33.3	33.8	32.6	32.6	32.6	33.8	34.5	35.8	35.2	36.5
87.5°	15.9	15.3	15.7	15.6	16.1	15.5	15.8	16.7	15.5	15.7	15.5
90°	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2	17.2	16.2	14.9
92.5°	32.7	32.5	32.3	32.1	32.0	31.6	30.9	30.3	29.8	29.2	28.3
95°	58.2	58.2	58.2	58.2	58.2	58.0	57.5	57.0	56.5	56.0	54.9
97.5°	91.2	91.2	91.2	91.2	91.2	91.0	90.3	89.7	89.2	88.6	87.2
100°	114.2	114.2	114.2	114.2	114.2	114.0	113.8	113.4	113.1	112.7	111.2
102.5°	140.2	140.1	139.9	139.8	139.6	139.3	138.8	138.5	138.0	137.5	136.2
105°	179.8	179.3	178.8	178.3	177.9	177.3	176.8	176.3	175.9	175.4	174.7
107.5°	218.4	218.5	218.5	218.5	218.6	218.3	217.8	217.4	217.0	216.5	216.4
110°	246.1	245.6	245.2	244.7	244.1	244.0	244.4	244.7	245.1	245.3	245.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	274.4	274.3	274.2	274.1	274.0	274.0	274.1	274.1	274.2	274.3	274.6
115°	318.3	318.5	318.7	318.9	319.0	319.1	319.3	319.4	319.6	319.8	320.1
117.5°	360.1	360.5	360.8	361.2	361.5	361.9	362.5	363.1	363.6	364.2	364.4
120°	392.0	391.7	391.3	391.1	390.7	391.0	391.7	392.6	393.4	394.3	394.7
122.5°	418.6	419.1	419.7	420.3	420.9	421.5	422.1	422.5	423.1	423.7	424.0
125°	464.2	464.6	464.9	465.2	465.5	465.9	466.2	466.6	466.8	467.2	467.3
127.5°	506.5	506.8	507.1	507.3	507.6	507.8	508.2	508.5	508.9	509.2	509.4
130°	534.2	534.9	535.6	536.2	536.9	537.3	537.6	538.0	538.3	538.7	538.7
132.5°	563.7	563.9	564.2	564.5	564.8	565.1	565.3	565.7	566.0	566.4	566.5
135°	604.3	604.7	605.2	605.7	606.1	606.6	606.9	607.3	607.6	607.9	607.9
137.5°	646.9	646.7	646.6	646.5	646.4	646.6	647.1	647.4	647.9	648.3	648.0
140°	672.8	672.9	673.1	673.3	673.4	673.5	673.7	673.9	674.1	674.2	674.2
142.5°	698.7	698.7	698.8	698.8	698.8	698.9	698.9	698.9	699.0	699.0	699.1
145°	734.0	734.4	734.9	735.4	735.8	736.2	736.4	736.5	736.7	736.9	736.7
147.5°	769.6	769.8	769.9	770.1	770.2	770.3	770.5	770.6	770.8	770.9	771.0
150°	791.4	791.5	791.7	791.9	792.0	792.1	792.1	792.1	792.1	792.1	792.1
152.5°	811.4	811.9	812.3	812.8	813.1	813.1	812.8	812.4	812.0	811.6	811.4
155°	839.3	839.9	840.6	841.2	841.9	841.9	841.2	840.6	839.9	839.3	839.4
157.5°	864.2	864.8	865.3	865.9	866.4	866.5	866.0	865.4	865.0	864.5	864.5
160°	878.4	879.2	880.0	880.8	881.7	881.7	881.3	880.8	880.3	879.9	880.0
162.5°	893.1	893.9	894.8	895.5	896.4	896.4	895.4	894.6	893.7	892.8	893.0
165°	912.3	912.9	913.5	914.2	914.8	914.7	913.7	912.8	911.7	910.8	911.1
167.5°	926.0	927.0	927.9	929.0	930.0	930.0	929.1	928.0	927.1	926.0	926.0
170°	933.6	934.7	935.9	937.1	938.2	938.3	937.3	936.3	935.3	934.3	934.2
172.5°	940.1	941.2	942.4	943.6	944.7	944.7	943.6	942.4	941.3	940.3	940.2
175°	946.9	948.0	949.1	950.3	951.5	951.5	950.3	949.1	948.0	946.9	947.1
177.5°	950.4	951.5	952.5	953.6	954.6	954.7	953.8	952.8	951.9	951.0	951.0
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1666.2	1659.0	1655.3	1646.9	1637.0	1631.8	1627.1	1620.3	1611.5	1602.1	1595.3
5°	1750.8	1735.1	1715.6	1692.1	1671.3	1651.1	1633.5	1615.9	1595.7	1574.9	1554.1
7.5°	1837.6	1806.9	1773.6	1735.1	1697.8	1663.8	1632.5	1602.5	1568.6	1538.2	1510.6
10°	1898.1	1856.3	1810.1	1761.2	1712.3	1670.0	1628.3	1590.5	1548.8	1511.6	1480.4
12.5°	1947.1	1898.1	1842.4	1781.6	1722.8	1671.6	1623.6	1574.3	1526.9	1486.7	1444.9
15°	2028.4	1961.2	1886.3	1813.4	1737.1	1667.4	1602.9	1545.6	1491.5	1434.8	1395.1
17.5°	2084.2	2004.7	1913.5	1825.9	1735.8	1653.6	1579.1	1510.9	1448.5	1390.6	1343.3
20°	2117.6	2029.7	1928.7	1829.0	1728.0	1640.0	1559.9	1484.3	1419.8	1357.3	1308.3
22.5°	2136.4	2039.1	1928.7	1824.3	1719.7	1624.4	1536.4	1457.7	1387.5	1324.9	1270.8
25°	2142.4	2038.2	1925.4	1805.5	1690.8	1589.9	1498.6	1413.2	1335.1	1272.5	1215.2
27.5°	2134.1	2011.3	1895.8	1772.8	1654.5	1548.0	1452.3	1362.6	1284.3	1217.2	1158.4
30°	2121.6	1989.9	1866.1	1738.4	1618.5	1516.3	1415.2	1329.3	1247.7	1178.1	1118.8
32.5°	2094.4	1963.9	1830.7	1699.9	1578.4	1473.0	1377.1	1290.6	1210.8	1139.5	1076.6
35°	2040.8	1908.5	1763.9	1629.7	1510.3	1400.9	1311.0	1227.6	1151.3	1075.2	1008.6
37.5°	1970.0	1834.8	1691.0	1544.0	1424.7	1321.3	1238.8	1160.5	1086.1	1016.4	942.8
40°	1903.3	1780.1	1631.5	1485.6	1363.1	1263.4	1187.2	1116.2	1041.2	972.1	898.5
42.5°	1822.5	1717.6	1567.4	1421.0	1300.0	1204.0	1132.9	1063.5	995.3	928.4	851.6
45°	1687.6	1608.1	1467.4	1326.6	1204.8	1109.7	1044.5	983.3	923.3	859.4	787.1
47.5°	1533.0	1479.2	1357.7	1213.6	1100.9	1015.3	952.3	902.3	851.6	787.8	724.3
50°	1425.7	1391.1	1273.8	1142.3	1034.7	955.8	891.4	844.4	802.1	740.8	684.2
52.5°	1311.0	1292.6	1193.5	1067.7	963.8	886.6	831.4	789.2	746.3	695.5	642.4
55°	1136.3	1146.1	1062.1	953.3	855.5	790.4	740.2	705.0	668.5	625.6	584.5
57.5°	957.8	993.5	937.1	841.6	750.0	689.8	652.0	622.4	591.7	556.1	521.0
60°	850.9	880.9	849.0	765.0	684.9	628.8	593.6	570.8	540.2	507.6	480.9
62.5°	746.7	778.7	759.9	692.0	617.6	569.4	538.4	517.1	494.3	465.9	438.1
65°	615.8	636.6	627.5	580.6	527.8	486.7	458.1	442.4	421.6	400.8	376.0
67.5°	471.6	511.9	506.5	481.6	436.0	404.0	385.2	371.4	352.4	336.9	320.1
70°	387.7	424.8	424.1	404.0	379.2	349.2	336.2	324.5	307.6	292.6	278.9
72.5°	317.4	351.4	356.4	340.9	324.0	301.3	288.8	280.7	264.3	254.0	242.9
75°	222.2	246.9	253.4	253.4	245.6	233.9	222.8	217.6	205.9	196.8	190.3
77.5°	145.7	161.4	171.5	173.8	175.0	171.1	162.0	158.3	149.3	146.1	139.9
80°	102.9	113.4	125.1	129.0	132.2	131.0	127.1	124.4	116.0	112.7	110.1
82.5°	71.2	76.9	86.5	95.1	94.3	97.6	94.3	92.2	85.8	84.5	82.0
85°	37.1	37.8	39.1	45.0	48.3	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	15.3	14.4	15.3	14.9	15.1	16.8	18.0	18.2	17.0	15.7	14.5
90°	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2	4.1	5.8	7.6
92.5°	27.3	26.4	25.5	24.0	22.0	19.9	17.8	15.7	17.8	19.9	22.0
95°	53.7	52.6	51.5	50.1	48.6	47.1	45.7	44.2	45.7	47.1	48.6
97.5°	85.9	84.5	83.2	81.9	80.8	79.6	78.4	77.2	78.4	79.6	80.8
100°	109.8	108.3	106.9	105.8	105.1	104.4	103.8	103.2	103.8	104.4	105.1
102.5°	134.8	133.5	132.1	131.3	131.1	130.8	130.5	130.3	130.5	130.8	131.1
105°	174.1	173.4	172.8	172.4	172.2	172.0	171.8	171.7	171.8	172.0	172.2
107.5°	216.3	216.2	216.1	215.9	215.7	215.6	215.4	215.2	215.4	215.6	215.7
110°	245.7	245.9	246.0	245.9	245.6	245.2	245.0	244.7	245.0	245.2	245.6





TEST NUMBER: P332968-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	274.8	275.1	275.4	275.6	275.5	275.4	275.3	275.3	275.3	275.4	275.5
115°	320.5	320.7	321.1	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3
117.5°	364.6	364.9	365.0	365.1	365.0	364.9	364.8	364.6	364.8	364.9	365.0
120°	395.2	395.7	396.2	396.2	395.5	394.8	394.2	393.5	394.2	394.8	395.5
122.5°	424.1	424.4	424.6	424.6	424.3	424.0	423.8	423.6	423.8	424.0	424.3
125°	467.5	467.7	467.8	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9
127.5°	509.7	509.9	510.2	510.1	509.6	509.2	508.6	508.1	508.6	509.2	509.6
130°	538.7	538.7	538.7	538.4	537.9	537.4	537.0	536.4	537.0	537.4	537.9
132.5°	566.7	566.8	566.8	566.8	566.4	566.1	565.7	565.3	565.7	566.1	566.4
135°	607.9	607.9	607.9	607.5	606.4	605.5	604.5	603.5	604.5	605.5	606.4
137.5°	647.8	647.5	647.2	646.9	646.4	645.9	645.5	645.1	645.5	645.9	646.4
140°	674.2	674.2	674.2	674.1	673.7	673.4	673.1	672.8	673.1	673.4	673.7
142.5°	699.3	699.4	699.6	699.5	699.1	698.8	698.4	698.1	698.4	698.8	699.1
145°	736.5	736.4	736.2	735.8	735.2	734.5	733.9	733.2	733.9	734.5	735.2
147.5°	771.2	771.3	771.5	771.1	770.3	769.5	768.7	768.0	768.7	769.5	770.3
150°	792.1	792.1	792.1	791.8	791.2	790.5	789.9	789.2	789.9	790.5	791.2
152.5°	811.3	811.2	811.1	810.8	810.4	810.0	809.6	809.3	809.6	810.0	810.4
155°	839.6	839.8	839.9	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
157.5°	864.6	864.6	864.6	864.8	865.1	865.3	865.6	866.0	865.6	865.3	865.1
160°	880.1	880.3	880.4	880.6	880.8	881.0	881.1	881.3	881.1	881.0	880.8
162.5°	893.2	893.2	893.4	893.7	894.2	894.6	895.0	895.4	895.0	894.6	894.2
165°	911.4	911.7	912.1	912.5	912.9	913.5	914.0	914.5	914.0	913.5	912.9
167.5°	926.0	926.0	926.0	926.3	927.0	927.7	928.3	929.1	928.3	927.7	927.0
170°	934.1	933.9	933.7	934.1	934.8	935.7	936.5	937.3	936.5	935.7	934.8
172.5°	940.2	940.2	940.1	940.5	941.1	941.8	942.5	943.2	942.5	941.8	941.1
175°	947.2	947.3	947.5	948.0	948.9	949.6	950.5	951.3	950.5	949.6	948.9
177.5°	951.0	951.0	951.0	951.3	952.0	952.6	953.3	953.9	953.3	952.6	952.0
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332968-830

CATALOG NUMBER: S124RDIP-S1020D810U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1588.0	1582.8	1576.0	1568.2	1558.9	1550.5	1546.9	1550.0	1551.5	1547.4	1546.9
5°	1539.7	1523.4	1510.3	1490.8	1475.2	1462.2	1453.0	1449.2	1450.4	1440.0	1437.4
7.5°	1485.4	1466.0	1444.7	1421.4	1399.9	1380.7	1370.6	1365.2	1354.2	1349.4	1341.5
10°	1450.4	1424.4	1403.5	1376.1	1351.4	1328.6	1317.5	1308.3	1297.3	1292.1	1281.0
12.5°	1414.5	1384.2	1361.3	1332.8	1307.6	1280.1	1269.5	1252.6	1235.3	1224.4	1210.1
15°	1363.8	1327.3	1299.3	1265.4	1235.4	1204.1	1176.1	1144.8	1133.1	1108.3	1094.0
17.5°	1304.5	1267.4	1232.8	1187.3	1141.0	1102.2	1072.3	1042.4	1024.4	1008.6	1001.4
20°	1265.4	1231.5	1183.3	1130.5	1079.0	1036.0	1011.9	992.4	972.8	961.8	953.9
22.5°	1228.3	1185.1	1129.1	1072.1	1020.7	987.0	966.6	946.5	930.6	920.0	909.6
25°	1166.3	1109.7	1050.4	985.2	950.0	920.7	898.5	882.2	872.5	858.8	853.6
27.5°	1102.6	1034.0	968.6	924.7	888.1	861.3	842.0	829.7	817.4	808.6	801.8
30°	1053.6	983.9	925.3	883.5	846.4	824.3	808.6	794.3	784.5	777.3	772.1
32.5°	1005.1	935.4	886.2	841.3	812.0	790.4	773.7	763.0	755.4	746.0	742.9
35°	935.0	873.1	830.1	789.8	759.8	740.2	727.2	716.0	709.5	707.0	705.0
37.5°	867.6	817.0	770.7	737.6	710.9	695.5	680.1	674.7	670.2	665.5	667.6
40°	824.9	777.3	736.3	701.1	679.6	662.7	653.6	647.1	643.1	643.1	643.1
42.5°	787.9	741.4	701.3	669.9	648.3	634.0	623.9	618.3	617.1	616.5	619.6
45°	730.5	687.4	647.1	620.9	602.8	588.3	582.5	578.0	578.0	580.6	581.2
47.5°	673.4	633.2	600.8	571.6	554.9	545.9	540.8	538.5	538.8	541.3	544.3
50°	638.6	598.8	566.8	540.8	525.2	516.7	512.2	510.9	512.2	512.2	516.7
52.5°	600.5	565.0	533.5	511.6	493.9	486.0	483.4	481.6	482.4	484.6	486.4
55°	544.7	512.8	482.9	461.9	448.9	443.7	437.9	438.5	437.2	438.5	438.5
57.5°	488.8	460.1	432.3	415.8	404.3	396.7	390.3	392.1	390.2	389.9	388.9
60°	452.9	421.6	399.4	384.5	371.4	364.9	359.0	360.3	358.4	357.0	354.5
62.5°	413.8	387.7	366.6	352.1	341.7	334.1	328.3	327.0	322.4	318.0	312.3
65°	357.0	335.5	316.7	303.0	293.2	287.4	282.8	278.9	269.1	258.6	253.4
67.5°	302.0	286.4	268.8	257.2	249.3	241.6	232.9	226.2	217.1	211.4	208.1
70°	266.5	251.5	236.5	225.5	217.0	209.8	200.0	195.5	189.0	186.3	183.1
72.5°	232.6	218.7	204.7	194.7	185.7	180.1	172.4	167.9	164.9	163.9	160.7
75°	181.2	170.0	159.7	150.5	143.4	139.4	136.2	132.9	131.6	125.7	122.5
77.5°	132.1	124.9	118.3	111.8	106.7	104.2	97.8	94.1	91.9	89.2	88.5
80°	102.9	97.7	91.2	87.3	80.1	77.6	74.9	74.3	73.6	73.0	72.3
82.5°	77.4	72.2	65.7	63.3	61.4	59.9	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.5	36.5	35.8	35.2	34.5	33.8	33.8	33.3	33.8	33.3
87.5°	14.9	14.7	15.0	14.2	15.0	15.3	14.9	15.1	15.8	15.0	15.1
90°	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.2	20.8
92.5°	24.0	25.5	26.4	27.3	28.3	29.2	29.8	30.3	30.9	31.6	32.0
95°	50.1	51.5	52.6	53.7	54.9	56.0	56.5	57.0	57.5	58.0	58.2
97.5°	81.9	83.2	84.5	85.9	87.2	88.6	89.2	89.7	90.3	91.0	91.2
100°	105.8	106.9	108.3	109.8	111.2	112.7	113.1	113.4	113.8	114.0	114.2
102.5°	131.3	132.1	133.5	134.8	136.2	137.5	138.0	138.5	138.8	139.3	139.6
105°	172.4	172.8	173.4	174.1	174.7	175.4	175.9	176.3	176.8	177.3	177.9
107.5°	215.9	216.1	216.2	216.3	216.4	216.5	217.0	217.4	217.8	218.3	218.6
110°	245.9	246.0	245.9	245.7	245.5	245.3	245.1	244.7	244.4	244.0	244.1



TEST NUMBER: P332968-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	275.6	275.4	275.1	274.8	274.6	274.3	274.2	274.1	274.1	274.0	274.0
115°	321.3	321.1	320.7	320.5	320.1	319.8	319.6	319.4	319.3	319.1	319.0
117.5°	365.1	365.0	364.9	364.6	364.4	364.2	363.6	363.1	362.5	361.9	361.5
120°	396.2	396.2	395.7	395.2	394.7	394.3	393.4	392.6	391.7	391.0	390.7
122.5°	424.6	424.6	424.4	424.1	424.0	423.7	423.1	422.5	422.1	421.5	420.9
125°	467.9	467.8	467.7	467.5	467.3	467.2	466.8	466.6	466.2	465.9	465.5
127.5°	510.1	510.2	509.9	509.7	509.4	509.2	508.9	508.5	508.2	507.8	507.6
130°	538.4	538.7	538.7	538.7	538.7	538.7	538.3	538.0	537.6	537.3	536.9
132.5°	566.8	566.8	566.8	566.7	566.5	566.4	566.0	565.7	565.3	565.1	564.8
135°	607.5	607.9	607.9	607.9	607.9	607.9	607.6	607.3	606.9	606.6	606.1
137.5°	646.9	647.2	647.5	647.8	648.0	648.3	647.9	647.4	647.1	646.6	646.4
140°	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.9	673.7	673.5	673.4
142.5°	699.5	699.6	699.4	699.3	699.1	699.0	699.0	698.9	698.9	698.9	698.8
145°	735.8	736.2	736.4	736.5	736.7	736.9	736.7	736.5	736.4	736.2	735.8
147.5°	771.1	771.5	771.3	771.2	771.0	770.9	770.8	770.6	770.5	770.3	770.2
150°	791.8	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.0
152.5°	810.8	811.1	811.2	811.3	811.4	811.6	812.0	812.4	812.8	813.1	813.1
155°	840.0	839.9	839.8	839.6	839.4	839.3	839.9	840.6	841.2	841.9	841.9
157.5°	864.8	864.6	864.6	864.6	864.5	864.5	865.0	865.4	866.0	866.5	866.4
160°	880.6	880.4	880.3	880.1	880.0	879.9	880.3	880.8	881.3	881.7	881.7
162.5°	893.7	893.4	893.2	893.2	893.0	892.8	893.7	894.6	895.4	896.4	896.4
165°	912.5	912.1	911.7	911.4	911.1	910.8	911.7	912.8	913.7	914.7	914.8
167.5°	926.3	926.0	926.0	926.0	926.0	926.0	927.1	928.0	929.1	930.0	930.0
170°	934.1	933.7	933.9	934.1	934.2	934.3	935.3	936.3	937.3	938.3	938.2
172.5°	940.5	940.1	940.2	940.2	940.2	940.3	941.3	942.4	943.6	944.7	944.7
175°	948.0	947.5	947.3	947.2	947.1	946.9	948.0	949.1	950.3	951.5	951.5
177.5°	951.3	951.0	951.0	951.0	951.0	951.0	951.9	952.8	953.8	954.7	954.6
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332968-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1543.7	1544.7	1541.2	1540.1	1541.2	1544.7	1543.7	1546.9	1547.4	1551.5	1550.0
5°	1432.2	1430.9	1427.6	1428.2	1427.6	1430.9	1432.2	1437.4	1440.0	1450.4	1449.2
7.5°	1336.8	1331.7	1333.1	1327.9	1333.1	1331.7	1336.8	1341.5	1349.4	1354.2	1365.2
10°	1278.4	1271.2	1265.4	1260.2	1265.4	1271.2	1278.4	1281.0	1292.1	1297.3	1308.3
12.5°	1198.6	1192.5	1184.6	1186.2	1184.6	1192.5	1198.6	1210.1	1224.4	1235.3	1252.6
15°	1085.5	1075.7	1060.2	1062.1	1060.2	1075.7	1085.5	1094.0	1108.3	1133.1	1144.8
17.5°	989.8	989.9	982.7	984.4	982.7	989.9	989.8	1001.4	1008.6	1024.4	1042.4
20°	940.3	935.7	936.3	934.3	936.3	935.7	940.3	953.9	961.8	972.8	992.4
22.5°	905.9	900.2	895.7	891.6	895.7	900.2	905.9	909.6	920.0	930.6	946.5
25°	847.7	843.8	837.9	836.6	837.9	843.8	847.7	853.6	858.8	872.5	882.2
27.5°	796.6	795.9	793.5	790.5	793.5	795.9	796.6	801.8	808.6	817.4	829.7
30°	766.9	765.6	764.3	762.3	764.3	765.6	766.9	772.1	777.3	784.5	794.3
32.5°	740.4	739.5	738.2	738.4	738.2	739.5	740.4	742.9	746.0	755.4	763.0
35°	702.4	701.7	700.5	699.8	700.5	701.7	702.4	705.0	707.0	709.5	716.0
37.5°	666.9	668.6	667.9	667.7	667.9	668.6	666.9	667.6	665.5	670.2	674.7
40°	642.4	643.1	644.4	643.8	644.4	643.1	642.4	643.1	643.1	643.1	647.1
42.5°	622.2	622.3	624.1	621.9	624.1	622.3	622.2	619.6	616.5	617.1	618.3
45°	585.8	589.7	589.0	589.0	589.0	589.7	585.8	581.2	580.6	578.0	578.0
47.5°	546.0	549.4	550.4	550.2	550.4	549.4	546.0	544.3	541.3	538.8	538.5
50°	520.0	518.7	520.7	520.0	520.7	518.7	520.0	516.7	512.2	512.2	510.9
52.5°	488.1	488.4	488.3	487.7	488.3	488.4	488.1	486.4	484.6	482.4	481.6
55°	439.1	439.8	438.5	439.1	438.5	439.8	439.1	438.5	438.5	437.2	438.5
57.5°	386.0	382.9	384.2	382.6	384.2	382.9	386.0	388.9	389.9	390.2	392.1
60°	348.0	342.7	341.4	338.8	341.4	342.7	348.0	354.5	357.0	358.4	360.3
62.5°	305.2	301.5	297.1	299.2	297.1	301.5	305.2	312.3	318.0	322.4	327.0
65°	248.3	245.6	243.6	246.3	243.6	245.6	248.3	253.4	258.6	269.1	278.9
67.5°	205.5	204.1	204.1	202.7	204.1	204.1	205.5	208.1	211.4	217.1	226.2
70°	183.1	181.2	181.2	179.8	181.2	181.2	183.1	183.1	186.3	189.0	195.5
72.5°	160.1	158.2	158.7	158.0	158.7	158.2	160.1	160.7	163.9	164.9	167.9
75°	118.6	115.4	115.4	116.0	115.4	115.4	118.6	122.5	125.7	131.6	132.9
77.5°	88.5	87.8	88.8	87.6	88.8	87.8	88.5	88.5	89.2	91.9	94.1
80°	72.3	71.6	71.1	73.0	71.1	71.6	72.3	72.3	73.0	73.6	74.3
82.5°	56.2	56.1	55.9	58.3	55.9	56.1	56.2	57.2	57.3	56.9	57.6
85°	33.8	32.6	33.8	32.6	33.8	32.6	33.8	33.3	33.8	33.3	33.8
87.5°	16.2	15.7	15.3	15.9	15.3	15.7	16.2	15.1	15.0	15.8	15.1
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2
92.5°	32.1	32.3	32.5	32.7	32.5	32.3	32.1	32.0	31.6	30.9	30.3
95°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.0	57.5	57.0
97.5°	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.0	90.3	89.7
100°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.0	113.8	113.4
102.5°	139.8	139.9	140.1	140.2	140.1	139.9	139.8	139.6	139.3	138.8	138.5
105°	178.3	178.8	179.3	179.8	179.3	178.8	178.3	177.9	177.3	176.8	176.3
107.5°	218.5	218.5	218.5	218.4	218.5	218.5	218.5	218.6	218.3	217.8	217.4
110°	244.7	245.2	245.6	246.1	245.6	245.2	244.7	244.1	244.0	244.4	244.7



TEST NUMBER: P332968-830

CATALOG NUMBER: S124RDIP-S1020D810U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	274.1	274.2	274.3	274.4	274.3	274.2	274.1	274.0	274.0	274.1	274.1
115°	318.9	318.7	318.5	318.3	318.5	318.7	318.9	319.0	319.1	319.3	319.4
117.5°	361.2	360.8	360.5	360.1	360.5	360.8	361.2	361.5	361.9	362.5	363.1
120°	391.1	391.3	391.7	392.0	391.7	391.3	391.1	390.7	391.0	391.7	392.6
122.5°	420.3	419.7	419.1	418.6	419.1	419.7	420.3	420.9	421.5	422.1	422.5
125°	465.2	464.9	464.6	464.2	464.6	464.9	465.2	465.5	465.9	466.2	466.6
127.5°	507.3	507.1	506.8	506.5	506.8	507.1	507.3	507.6	507.8	508.2	508.5
130°	536.2	535.6	534.9	534.2	534.9	535.6	536.2	536.9	537.3	537.6	538.0
132.5°	564.5	564.2	563.9	563.7	563.9	564.2	564.5	564.8	565.1	565.3	565.7
135°	605.7	605.2	604.7	604.3	604.7	605.2	605.7	606.1	606.6	606.9	607.3
137.5°	646.5	646.6	646.7	646.9	646.7	646.6	646.5	646.4	646.6	647.1	647.4
140°	673.3	673.1	672.9	672.8	672.9	673.1	673.3	673.4	673.5	673.7	673.9
142.5°	698.8	698.8	698.7	698.7	698.7	698.8	698.8	698.8	698.9	698.9	698.9
145°	735.4	734.9	734.4	734.0	734.4	734.9	735.4	735.8	736.2	736.4	736.5
147.5°	770.1	769.9	769.8	769.6	769.8	769.9	770.1	770.2	770.3	770.5	770.6
150°	791.9	791.7	791.5	791.4	791.5	791.7	791.9	792.0	792.1	792.1	792.1
152.5°	812.8	812.3	811.9	811.4	811.9	812.3	812.8	813.1	813.1	812.8	812.4
155°	841.2	840.6	839.9	839.3	839.9	840.6	841.2	841.9	841.9	841.2	840.6
157.5°	865.9	865.3	864.8	864.2	864.8	865.3	865.9	866.4	866.5	866.0	865.4
160°	880.8	880.0	879.2	878.4	879.2	880.0	880.8	881.7	881.7	881.3	880.8
162.5°	895.5	894.8	893.9	893.1	893.9	894.8	895.5	896.4	896.4	895.4	894.6
165°	914.2	913.5	912.9	912.3	912.9	913.5	914.2	914.8	914.7	913.7	912.8
167.5°	929.0	927.9	927.0	926.0	927.0	927.9	929.0	930.0	930.0	929.1	928.0
170°	937.1	935.9	934.7	933.6	934.7	935.9	937.1	938.2	938.3	937.3	936.3
172.5°	943.6	942.4	941.2	940.1	941.2	942.4	943.6	944.7	944.7	943.6	942.4
175°	950.3	949.1	948.0	946.9	948.0	949.1	950.3	951.5	951.5	950.3	949.1
177.5°	953.6	952.5	951.5	950.4	951.5	952.5	953.6	954.6	954.7	953.8	952.8
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332968-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1546.9	1550.5	1558.9	1568.2	1576.0	1582.8	1588.0	1595.3	1602.1	1611.5	1620.3
5°	1453.0	1462.2	1475.2	1490.8	1510.3	1523.4	1539.7	1554.1	1574.9	1595.7	1615.9
7.5°	1370.6	1380.7	1399.9	1421.4	1444.7	1466.0	1485.4	1510.6	1538.2	1568.6	1602.5
10°	1317.5	1328.6	1351.4	1376.1	1403.5	1424.4	1450.4	1480.4	1511.6	1548.8	1590.5
12.5°	1269.5	1280.1	1307.6	1332.8	1361.3	1384.2	1414.5	1444.9	1486.7	1526.9	1574.3
15°	1176.1	1204.1	1235.4	1265.4	1299.3	1327.3	1363.8	1395.1	1434.8	1491.5	1545.6
17.5°	1072.3	1102.2	1141.0	1187.3	1232.8	1267.4	1304.5	1343.3	1390.6	1448.5	1510.9
20°	1011.9	1036.0	1079.0	1130.5	1183.3	1231.5	1265.4	1308.3	1357.3	1419.8	1484.3
22.5°	966.6	987.0	1020.7	1072.1	1129.1	1185.1	1228.3	1270.8	1324.9	1387.5	1457.7
25°	898.5	920.7	950.0	985.2	1050.4	1109.7	1166.3	1215.2	1272.5	1335.1	1413.2
27.5°	842.0	861.3	888.1	924.7	968.6	1034.0	1102.6	1158.4	1217.2	1284.3	1362.6
30°	808.6	824.3	846.4	883.5	925.3	983.9	1053.6	1118.8	1178.1	1247.7	1329.3
32.5°	773.7	790.4	812.0	841.3	886.2	935.4	1005.1	1076.6	1139.5	1210.8	1290.6
35°	727.2	740.2	759.8	789.8	830.1	873.1	935.0	1008.6	1075.2	1151.3	1227.6
37.5°	680.1	695.5	710.9	737.6	770.7	817.0	867.6	942.8	1016.4	1086.1	1160.5
40°	653.6	662.7	679.6	701.1	736.3	777.3	824.9	898.5	972.1	1041.2	1116.2
42.5°	623.9	634.0	648.3	669.9	701.3	741.4	787.9	851.6	928.4	995.3	1063.5
45°	582.5	588.3	602.8	620.9	647.1	687.4	730.5	787.1	859.4	923.3	983.3
47.5°	540.8	545.9	554.9	571.6	600.8	633.2	673.4	724.3	787.8	851.6	902.3
50°	512.2	516.7	525.2	540.8	566.8	598.8	638.6	684.2	740.8	802.1	844.4
52.5°	483.4	486.0	493.9	511.6	533.5	565.0	600.5	642.4	695.5	746.3	789.2
55°	437.9	443.7	448.9	461.9	482.9	512.8	544.7	584.5	625.6	668.5	705.0
57.5°	390.3	396.7	404.3	415.8	432.3	460.1	488.8	521.0	556.1	591.7	622.4
60°	359.0	364.9	371.4	384.5	399.4	421.6	452.9	480.9	507.6	540.2	570.8
62.5°	328.3	334.1	341.7	352.1	366.6	387.7	413.8	438.1	465.9	494.3	517.1
65°	282.8	287.4	293.2	303.0	316.7	335.5	357.0	376.0	400.8	421.6	442.4
67.5°	232.9	241.6	249.3	257.2	268.8	286.4	302.0	320.1	336.9	352.4	371.4
70°	200.0	209.8	217.0	225.5	236.5	251.5	266.5	278.9	292.6	307.6	324.5
72.5°	172.4	180.1	185.7	194.7	204.7	218.7	232.6	242.9	254.0	264.3	280.7
75°	136.2	139.4	143.4	150.5	159.7	170.0	181.2	190.3	196.8	205.9	217.6
77.5°	97.8	104.2	106.7	111.8	118.3	124.9	132.1	139.9	146.1	149.3	158.3
80°	74.9	77.6	80.1	87.3	91.2	97.7	102.9	110.1	112.7	116.0	124.4
82.5°	58.2	59.9	61.4	63.3	65.7	72.2	77.4	82.0	84.5	85.8	92.2
85°	33.8	34.5	35.2	35.8	36.5	36.5	39.1	42.3	46.9	46.9	48.8
87.5°	14.9	15.3	15.0	14.2	15.0	14.7	14.9	14.5	15.7	17.0	18.2
90°	17.2	16.2	14.9	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2
92.5°	29.8	29.2	28.3	27.3	26.4	25.5	24.0	22.0	19.9	17.8	15.7
95°	56.5	56.0	54.9	53.7	52.6	51.5	50.1	48.6	47.1	45.7	44.2
97.5°	89.2	88.6	87.2	85.9	84.5	83.2	81.9	80.8	79.6	78.4	77.2
100°	113.1	112.7	111.2	109.8	108.3	106.9	105.8	105.1	104.4	103.8	103.2
102.5°	138.0	137.5	136.2	134.8	133.5	132.1	131.3	131.1	130.8	130.5	130.3
105°	175.9	175.4	174.7	174.1	173.4	172.8	172.4	172.2	172.0	171.8	171.7
107.5°	217.0	216.5	216.4	216.3	216.2	216.1	215.9	215.7	215.6	215.4	215.2
110°	245.1	245.3	245.5	245.7	245.9	246.0	245.9	245.6	245.2	245.0	244.7



TEST NUMBER: P332968-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.2	274.3	274.6	274.8	275.1	275.4	275.6	275.5	275.4	275.3	275.3
115°	319.6	319.8	320.1	320.5	320.7	321.1	321.3	321.3	321.3	321.3	321.3
117.5°	363.6	364.2	364.4	364.6	364.9	365.0	365.1	365.0	364.9	364.8	364.6
120°	393.4	394.3	394.7	395.2	395.7	396.2	396.2	395.5	394.8	394.2	393.5
122.5°	423.1	423.7	424.0	424.1	424.4	424.6	424.6	424.3	424.0	423.8	423.6
125°	466.8	467.2	467.3	467.5	467.7	467.8	467.9	467.9	467.9	467.9	467.9
127.5°	508.9	509.2	509.4	509.7	509.9	510.2	510.1	509.6	509.2	508.6	508.1
130°	538.3	538.7	538.7	538.7	538.7	538.7	538.4	537.9	537.4	537.0	536.4
132.5°	566.0	566.4	566.5	566.7	566.8	566.8	566.8	566.4	566.1	565.7	565.3
135°	607.6	607.9	607.9	607.9	607.9	607.9	607.5	606.4	605.5	604.5	603.5
137.5°	647.9	648.3	648.0	647.8	647.5	647.2	646.9	646.4	645.9	645.5	645.1
140°	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.7	673.4	673.1	672.8
142.5°	699.0	699.0	699.1	699.3	699.4	699.6	699.5	699.1	698.8	698.4	698.1
145°	736.7	736.9	736.7	736.5	736.4	736.2	735.8	735.2	734.5	733.9	733.2
147.5°	770.8	770.9	771.0	771.2	771.3	771.5	771.1	770.3	769.5	768.7	768.0
150°	792.1	792.1	792.1	792.1	792.1	792.1	791.8	791.2	790.5	789.9	789.2
152.5°	812.0	811.6	811.4	811.3	811.2	811.1	810.8	810.4	810.0	809.6	809.3
155°	839.9	839.3	839.4	839.6	839.8	839.9	840.0	840.0	840.0	840.0	840.0
157.5°	865.0	864.5	864.5	864.6	864.6	864.6	864.8	865.1	865.3	865.6	866.0
160°	880.3	879.9	880.0	880.1	880.3	880.4	880.6	880.8	881.0	881.1	881.3
162.5°	893.7	892.8	893.0	893.2	893.2	893.4	893.7	894.2	894.6	895.0	895.4
165°	911.7	910.8	911.1	911.4	911.7	912.1	912.5	912.9	913.5	914.0	914.5
167.5°	927.1	926.0	926.0	926.0	926.0	926.0	926.3	927.0	927.7	928.3	929.1
170°	935.3	934.3	934.2	934.1	933.9	933.7	934.1	934.8	935.7	936.5	937.3
172.5°	941.3	940.3	940.2	940.2	940.2	940.1	940.5	941.1	941.8	942.5	943.2
175°	948.0	946.9	947.1	947.2	947.3	947.5	948.0	948.9	949.6	950.5	951.3
177.5°	951.9	951.0	951.0	951.0	951.0	951.0	951.3	952.0	952.6	953.3	953.9
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332968-830

CATALOG NUMBER: S124RDIP-S1020D810U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1627.1	1631.8	1637.0	1646.9	1655.3	1659.0	1666.2	1671.4	1669.9	1677.2	1689.7
5°	1633.5	1651.1	1671.3	1692.1	1715.6	1735.1	1750.8	1766.4	1778.9	1793.8	1816.0
7.5°	1632.5	1663.8	1697.8	1735.1	1773.6	1806.9	1837.6	1868.9	1896.6	1927.0	1966.7
10°	1628.3	1670.0	1712.3	1761.2	1810.1	1856.3	1898.1	1937.1	1974.3	2014.0	2064.3
12.5°	1623.6	1671.6	1722.8	1781.6	1842.4	1898.1	1947.1	2003.4	2049.8	2101.1	2159.1
15°	1602.9	1667.4	1737.1	1813.4	1886.3	1961.2	2028.4	2097.4	2161.9	2223.2	2296.2
17.5°	1579.1	1653.6	1735.8	1825.9	1913.5	2004.7	2084.2	2171.3	2237.3	2319.5	2387.3
20°	1559.9	1640.0	1728.0	1829.0	1928.7	2029.7	2117.6	2206.3	2280.6	2363.3	2449.3
22.5°	1536.4	1624.4	1719.7	1824.3	1928.7	2039.1	2136.4	2224.5	2316.5	2409.7	2498.3
25°	1498.6	1589.9	1690.8	1805.5	1925.4	2038.2	2142.4	2251.8	2350.9	2451.9	2531.4
27.5°	1452.3	1548.0	1654.5	1772.8	1895.8	2011.3	2134.1	2250.7	2350.4	2447.6	2517.0
30°	1415.2	1516.3	1618.5	1738.4	1866.1	1989.9	2121.6	2238.2	2343.1	2430.4	2469.5
32.5°	1377.1	1473.0	1578.4	1699.9	1830.7	1963.9	2094.4	2213.7	2310.7	2363.1	2364.2
35°	1311.0	1400.9	1510.3	1629.7	1763.9	1908.5	2040.8	2158.0	2217.3	2221.9	2158.0
37.5°	1238.8	1321.3	1424.7	1544.0	1691.0	1834.8	1970.0	2048.1	2068.0	2001.7	1883.6
40°	1187.2	1263.4	1363.1	1485.6	1631.5	1780.1	1903.3	1960.6	1939.8	1832.2	1700.6
42.5°	1132.9	1204.0	1300.0	1421.0	1567.4	1717.6	1822.5	1853.2	1798.0	1673.8	1519.8
45°	1044.5	1109.7	1204.8	1326.6	1467.4	1608.1	1687.6	1672.0	1580.1	1432.9	1260.2
47.5°	952.3	1015.3	1100.9	1213.6	1357.7	1479.2	1533.0	1485.9	1355.2	1193.2	1052.7
50°	891.4	955.8	1034.7	1142.3	1273.8	1391.1	1425.7	1354.0	1208.7	1052.9	924.0
52.5°	831.4	886.6	963.8	1067.7	1193.5	1292.6	1311.0	1228.3	1078.4	938.8	824.3
55°	740.2	790.4	855.5	953.3	1062.1	1146.1	1136.3	1030.2	894.0	774.8	684.9
57.5°	652.0	689.8	750.0	841.6	937.1	993.5	957.8	867.2	740.4	642.7	566.8
60°	593.6	628.8	684.9	765.0	849.0	880.9	850.9	752.6	652.2	563.0	499.1
62.5°	538.4	569.4	617.6	692.0	759.9	778.7	746.7	660.8	570.4	494.2	441.3
65°	458.1	486.7	527.8	580.6	627.5	636.6	615.8	527.8	459.4	395.5	359.0
67.5°	385.2	404.0	436.0	481.6	506.5	511.9	471.6	416.3	356.0	316.8	289.3
70°	336.2	349.2	379.2	404.0	424.1	424.8	387.7	343.4	297.1	265.2	245.0
72.5°	288.8	301.3	324.0	340.9	356.4	351.4	317.4	282.4	245.0	220.9	205.9
75°	222.8	233.9	245.6	253.4	253.4	246.9	222.2	196.1	174.7	160.3	155.7
77.5°	162.0	171.1	175.0	173.8	171.5	161.4	145.7	128.7	120.9	114.1	110.7
80°	127.1	131.0	132.2	129.0	125.1	113.4	102.9	95.8	88.6	86.1	84.7
82.5°	94.3	97.6	94.3	95.1	86.5	76.9	71.2	68.7	65.7	64.7	63.3
85°	50.1	49.5	48.3	45.0	39.1	37.8	37.1	36.5	35.2	35.8	34.5
87.5°	18.0	16.8	15.1	14.9	15.3	14.4	15.3	15.5	15.7	15.5	16.7
90°	4.1	5.8	7.6	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2
92.5°	17.8	19.9	22.0	24.0	25.5	26.4	27.3	28.3	29.2	29.8	30.3
95°	45.7	47.1	48.6	50.1	51.5	52.6	53.7	54.9	56.0	56.5	57.0
97.5°	78.4	79.6	80.8	81.9	83.2	84.5	85.9	87.2	88.6	89.2	89.7
100°	103.8	104.4	105.1	105.8	106.9	108.3	109.8	111.2	112.7	113.1	113.4
102.5°	130.5	130.8	131.1	131.3	132.1	133.5	134.8	136.2	137.5	138.0	138.5
105°	171.8	172.0	172.2	172.4	172.8	173.4	174.1	174.7	175.4	175.9	176.3
107.5°	215.4	215.6	215.7	215.9	216.1	216.2	216.3	216.4	216.5	217.0	217.4
110°	245.0	245.2	245.6	245.9	246.0	245.9	245.7	245.5	245.3	245.1	244.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	275.3	275.4	275.5	275.6	275.4	275.1	274.8	274.6	274.3	274.2	274.1
115°	321.3	321.3	321.3	321.3	321.1	320.7	320.5	320.1	319.8	319.6	319.4
117.5°	364.8	364.9	365.0	365.1	365.0	364.9	364.6	364.4	364.2	363.6	363.1
120°	394.2	394.8	395.5	396.2	396.2	395.7	395.2	394.7	394.3	393.4	392.6
122.5°	423.8	424.0	424.3	424.6	424.6	424.4	424.1	424.0	423.7	423.1	422.5
125°	467.9	467.9	467.9	467.9	467.8	467.7	467.5	467.3	467.2	466.8	466.6
127.5°	508.6	509.2	509.6	510.1	510.2	509.9	509.7	509.4	509.2	508.9	508.5
130°	537.0	537.4	537.9	538.4	538.7	538.7	538.7	538.7	538.7	538.3	538.0
132.5°	565.7	566.1	566.4	566.8	566.8	566.8	566.7	566.5	566.4	566.0	565.7
135°	604.5	605.5	606.4	607.5	607.9	607.9	607.9	607.9	607.9	607.6	607.3
137.5°	645.5	645.9	646.4	646.9	647.2	647.5	647.8	648.0	648.3	647.9	647.4
140°	673.1	673.4	673.7	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.9
142.5°	698.4	698.8	699.1	699.5	699.6	699.4	699.3	699.1	699.0	699.0	698.9
145°	733.9	734.5	735.2	735.8	736.2	736.4	736.5	736.7	736.9	736.7	736.5
147.5°	768.7	769.5	770.3	771.1	771.5	771.3	771.2	771.0	770.9	770.8	770.6
150°	789.9	790.5	791.2	791.8	792.1	792.1	792.1	792.1	792.1	792.1	792.1
152.5°	809.6	810.0	810.4	810.8	811.1	811.2	811.3	811.4	811.6	812.0	812.4
155°	840.0	840.0	840.0	840.0	839.9	839.8	839.6	839.4	839.3	839.9	840.6
157.5°	865.6	865.3	865.1	864.8	864.6	864.6	864.6	864.5	864.5	865.0	865.4
160°	881.1	881.0	880.8	880.6	880.4	880.3	880.1	880.0	879.9	880.3	880.8
162.5°	895.0	894.6	894.2	893.7	893.4	893.2	893.2	893.0	892.8	893.7	894.6
165°	914.0	913.5	912.9	912.5	912.1	911.7	911.4	911.1	910.8	911.7	912.8
167.5°	928.3	927.7	927.0	926.3	926.0	926.0	926.0	926.0	926.0	927.1	928.0
170°	936.5	935.7	934.8	934.1	933.7	933.9	934.1	934.2	934.3	935.3	936.3
172.5°	942.5	941.8	941.1	940.5	940.1	940.2	940.2	940.2	940.3	941.3	942.4
175°	950.5	949.6	948.9	948.0	947.5	947.3	947.2	947.1	946.9	948.0	949.1
177.5°	953.3	952.6	952.0	951.3	951.0	951.0	951.0	951.0	951.0	951.9	952.8
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1696.5	1698.6	1700.2	1705.3	1705.8	1710.5	1705.8
5°	1836.8	1846.0	1860.3	1874.6	1875.9	1885.0	1868.8
7.5°	1994.2	2015.3	2028.5	2051.7	2060.9	2066.5	2057.2
10°	2102.6	2122.2	2156.7	2173.7	2190.7	2193.2	2185.4
12.5°	2207.4	2238.4	2265.7	2297.7	2297.0	2319.9	2311.6
15°	2347.0	2379.0	2416.7	2452.6	2465.6	2465.6	2476.1
17.5°	2446.6	2505.1	2544.2	2572.3	2603.1	2608.4	2604.8
20°	2513.9	2577.0	2618.8	2655.2	2676.1	2681.9	2681.9
22.5°	2563.8	2617.6	2658.3	2691.1	2708.4	2715.3	2713.2
25°	2598.5	2644.8	2669.6	2679.3	2683.9	2682.6	2670.2
27.5°	2551.1	2549.0	2533.4	2503.4	2480.9	2467.2	2451.6
30°	2460.4	2426.5	2387.4	2344.4	2289.1	2246.6	2233.6
32.5°	2325.3	2249.3	2183.0	2111.4	2051.8	2009.5	1991.8
35°	2064.3	1943.7	1845.3	1759.3	1696.8	1657.6	1644.6
37.5°	1754.4	1637.7	1515.9	1432.5	1380.5	1341.0	1326.3
40°	1557.3	1430.2	1324.0	1245.9	1192.4	1154.0	1153.3
42.5°	1377.4	1256.1	1156.2	1099.9	1042.3	1016.8	1016.7
45°	1127.8	1030.8	946.1	901.8	867.2	846.4	840.6
47.5°	933.9	853.6	797.1	761.9	733.7	720.4	711.8
50°	824.9	754.5	709.5	678.9	663.3	646.4	645.1
52.5°	734.2	677.4	642.3	617.5	597.7	587.5	587.8
55°	617.1	572.1	547.3	528.4	512.8	505.0	501.7
57.5°	519.8	486.1	468.1	450.7	444.1	438.0	436.3
60°	459.4	436.6	419.6	406.0	396.2	394.2	393.5
62.5°	409.3	385.5	373.7	363.2	356.0	353.0	351.9
65°	337.5	319.9	309.5	301.0	298.4	293.9	293.2
67.5°	272.1	261.6	254.7	248.7	245.2	245.0	245.0
70°	232.0	226.1	220.3	217.0	215.0	213.7	213.7
72.5°	197.6	193.2	188.4	186.7	186.3	185.0	184.5
75°	150.5	146.0	146.6	143.4	140.7	137.5	135.5
77.5°	106.7	103.5	102.8	102.5	100.2	99.8	100.9
80°	82.8	79.5	78.8	79.5	78.8	76.9	76.9
82.5°	63.0	60.2	59.6	59.2	58.5	59.2	58.2
85°	33.8	32.6	32.6	32.6	33.8	33.3	32.6
87.5°	15.8	15.5	16.1	15.6	15.7	15.3	15.9
90°	19.1	20.2	20.8	21.1	21.5	21.8	22.1
92.5°	30.9	31.6	32.0	32.1	32.3	32.5	32.7
95°	57.5	58.0	58.2	58.2	58.2	58.2	58.2
97.5°	90.3	91.0	91.2	91.2	91.2	91.2	91.2
100°	113.8	114.0	114.2	114.2	114.2	114.2	114.2
102.5°	138.8	139.3	139.6	139.8	139.9	140.1	140.2
105°	176.8	177.3	177.9	178.3	178.8	179.3	179.8
107.5°	217.8	218.3	218.6	218.5	218.5	218.5	218.4
110°	244.4	244.0	244.1	244.7	245.2	245.6	246.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.1	274.0	274.0	274.1	274.2	274.3	274.4
115°	319.3	319.1	319.0	318.9	318.7	318.5	318.3
117.5°	362.5	361.9	361.5	361.2	360.8	360.5	360.1
120°	391.7	391.0	390.7	391.1	391.3	391.7	392.0
122.5°	422.1	421.5	420.9	420.3	419.7	419.1	418.6
125°	466.2	465.9	465.5	465.2	464.9	464.6	464.2
127.5°	508.2	507.8	507.6	507.3	507.1	506.8	506.5
130°	537.6	537.3	536.9	536.2	535.6	534.9	534.2
132.5°	565.3	565.1	564.8	564.5	564.2	563.9	563.7
135°	606.9	606.6	606.1	605.7	605.2	604.7	604.3
137.5°	647.1	646.6	646.4	646.5	646.6	646.7	646.9
140°	673.7	673.5	673.4	673.3	673.1	672.9	672.8
142.5°	698.9	698.9	698.8	698.8	698.8	698.7	698.7
145°	736.4	736.2	735.8	735.4	734.9	734.4	734.0
147.5°	770.5	770.3	770.2	770.1	769.9	769.8	769.6
150°	792.1	792.1	792.0	791.9	791.7	791.5	791.4
152.5°	812.8	813.1	813.1	812.8	812.3	811.9	811.4
155°	841.2	841.9	841.9	841.2	840.6	839.9	839.3
157.5°	866.0	866.5	866.4	865.9	865.3	864.8	864.2
160°	881.3	881.7	881.7	880.8	880.0	879.2	878.4
162.5°	895.4	896.4	896.4	895.5	894.8	893.9	893.1
165°	913.7	914.7	914.8	914.2	913.5	912.9	912.3
167.5°	929.1	930.0	930.0	929.0	927.9	927.0	926.0
170°	937.3	938.3	938.2	937.1	935.9	934.7	933.6
172.5°	943.6	944.7	944.7	943.6	942.4	941.2	940.1
175°	950.3	951.5	951.5	950.3	949.1	948.0	946.9
177.5°	953.8	954.7	954.6	953.6	952.5	951.5	950.4
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7

(END OF REPORT)