

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: P332967-830

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332967-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
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-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7138.7 lumens  
Efficiency: N/A  
Efficacy: 131.2 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: General Diffuse

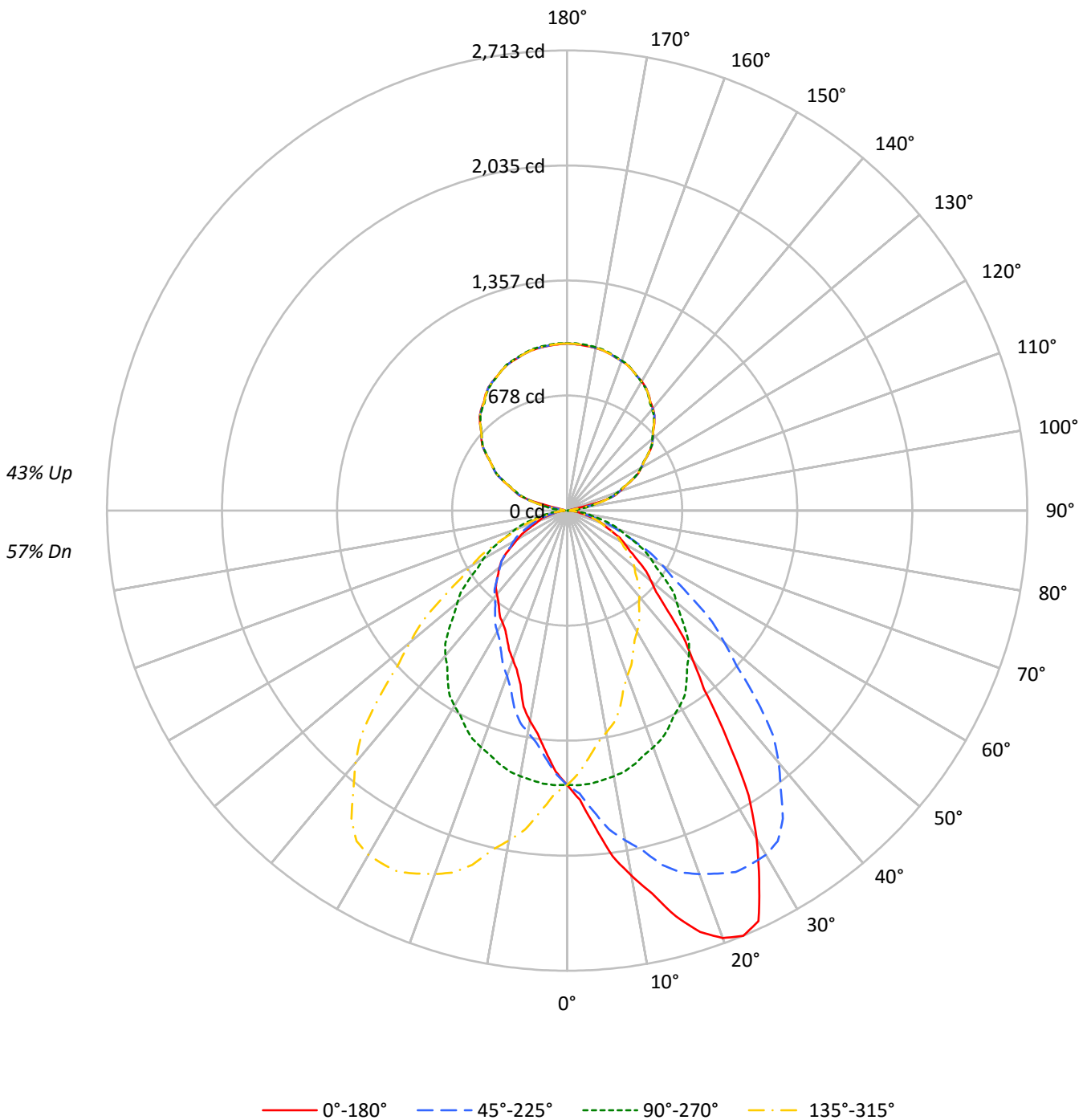
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42
3	84	75	67	62	78	70	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	32
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	33	30	27	24
7	61	48	40	35	56	46	38	33	40	35	30	35	31	27	31	27	24	22
8	56	44	36	31	52	42	35	30	37	31	27	32	28	24	28	25	22	20
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

**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	2.2
10°-20°	472.7	6.6
20°-30°	739.3	10.4
30°-40°	821.9	11.5
40°-50°	729.2	10.2
50°-60°	568.2	8.0
60°-70°	372.0	5.2
70°-80°	182.9	2.6
80°-90°	48.0	0.7
90°-100°	33.7	0.5
100°-110°	214.9	3.0
110°-120°	411.0	5.8
120°-130°	521.8	7.3
130°-140°	558.3	7.8
140°-150°	522.1	7.3
150°-160°	421.0	5.9
160°-170°	271.5	3.8
170°-180°	93.6	1.3
0°-30°	1368.7	19.2
0°-40°	2190.5	30.7
0°-60°	3487.9	48.9
0°-90°	4090.8	57.3
90°-120°	659.6	9.2
90°-150°	2261.8	31.7
90°-180°	3048.0	42.7
0°-180°	7138.7	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	11
95°	21	40	21	40	21	17
105°	210	222	210	222	210	183
115°	417	414	417	414	417	413
125°	587	582	587	582	587	522
135°	727	722	727	722	727	560
145°	837	833	837	833	837	523
155°	912	913	912	913	912	421
165°	959	963	959	963	959	271
175°	979	985	979	985	979	93
180°	985	985	985	985	985	



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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°	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6	16.6	15.6	14.3
95°	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2	17.2	16.2	16.0
97.5°	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	37.7
100°	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9	29.6	32.4	55.0
102.5°	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1	126.2	156.3	159.2
105°	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9	231.4	229.9	229.1
107.5°	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1	287.4	286.7	285.6
110°	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6	325.4	325.0	324.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0	362.1	362.1	361.7
115°	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3	415.9	415.7	415.8
117.5°	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9	471.0	471.1	470.7
120°	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7	504.4	504.1	504.3
122.5°	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1	537.9	537.7	537.4
125°	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7	584.2	583.7	584.0
127.5°	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9	631.0	631.1	630.4
130°	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2	659.0	658.8	658.4
132.5°	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9	686.7	686.5	685.9
135°	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1	724.7	724.4	723.8
137.5°	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7	761.4	761.0	760.3
140°	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4	783.9	783.3	783.1
142.5°	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3	805.0	804.6	804.5
145°	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3	835.2	835.0	835.0
147.5°	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7	861.5	861.4	861.5
150°	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4	878.4	878.4	878.6
152.5°	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2	892.9	892.6	892.9
155°	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9	912.3	911.6	912.1
157.5°	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0	929.2	928.3	928.9
160°	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8	939.9	938.9	939.1
162.5°	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7	948.8	947.7	947.9
165°	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1	960.8	959.5	959.5
167.5°	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3	969.8	968.4	968.5
170°	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9	975.5	974.3	974.1
172.5°	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4	979.1	977.8	977.6
175°	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6	983.1	981.7	981.5
177.5°	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3	985.1	984.1	983.9
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3	9.4	9.5	9.6
95°	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5	35.0	29.4	23.8
97.5°	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1	89.5	93.0	96.5
100°	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8	123.9	126.8	129.7
102.5°	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8	161.9	164.1	166.3
105°	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8	222.8	223.8	224.8
107.5°	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5	279.9	280.4	281.0
110°	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4	318.9	319.3	319.8





TEST NUMBER: P332967-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1	356.9	357.9	358.7
115°	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2	414.6	415.2	415.7
117.5°	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5	467.1	467.8	468.4
120°	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9	502.6	503.2	503.9
122.5°	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9	535.3	535.6	536.0
125°	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2	582.9	583.5	584.2
127.5°	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0	627.2	627.4	627.5
130°	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9	656.1	656.2	656.4
132.5°	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4	682.7	683.1	683.3
135°	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3	722.1	721.9	721.7
137.5°	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4	757.5	757.6	757.6
140°	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4	780.8	781.1	781.5
142.5°	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1	801.6	802.3	802.9
145°	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7	833.3	833.8	834.2
147.5°	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0	858.9	859.8	860.7
150°	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3	876.9	877.6	878.3
152.5°	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6	892.1	892.6	893.2
155°	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1	913.2	913.4	913.6
157.5°	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2	931.1	931.0	930.9
160°	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9	941.3	940.8	940.4
162.5°	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3	950.6	950.0	949.4
165°	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2	962.4	961.6	960.7
167.5°	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6	971.8	970.9	970.1
170°	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0	976.9	976.0	975.0
172.5°	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5	980.5	979.5	978.5
175°	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3	984.3	983.4	982.4
177.5°	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1	986.2	985.2	984.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332967-830

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

**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°	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6	18.6	19.5	20.1
95°	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2	19.1	20.2	20.7
97.5°	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7	19.8	19.9	20.0
100°	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9	24.0	21.3	20.0
102.5°	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1	66.2	36.1	21.1
105°	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9	234.3	235.8	233.7
107.5°	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1	288.8	289.5	290.2
110°	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6	326.0	326.3	326.7



TEST NUMBER: P332967-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0	361.9	361.8	362.1
115°	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3	416.6	417.0	417.2
117.5°	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9	470.9	470.8	470.7
120°	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7	505.1	505.4	505.4
122.5°	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1	538.3	538.5	538.4
125°	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7	585.1	585.6	586.0
127.5°	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9	630.8	630.7	630.7
130°	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2	659.3	659.5	659.6
132.5°	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9	687.0	687.2	687.2
135°	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1	725.4	725.8	726.0
137.5°	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7	762.0	762.4	762.5
140°	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4	784.9	785.3	785.7
142.5°	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3	805.7	806.1	806.3
145°	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3	835.5	835.7	835.8
147.5°	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7	861.8	861.9	862.0
150°	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4	878.4	878.4	878.5
152.5°	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2	893.4	893.6	893.7
155°	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9	913.6	914.3	914.4
157.5°	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0	930.9	931.7	931.7
160°	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8	941.9	942.8	942.8
162.5°	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7	950.6	951.7	951.6
165°	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1	963.5	964.8	964.7
167.5°	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3	972.7	974.1	974.0
170°	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9	978.2	979.5	979.3
172.5°	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4	981.8	983.1	982.8
175°	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6	986.1	987.5	987.3
177.5°	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3	987.3	988.4	988.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332967-830

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

**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°	20.2	20.2	20.3	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6
95°	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2
97.5°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7
100°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9
102.5°	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1
105°	227.7	221.8	215.9	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9
107.5°	290.9	291.4	292.1	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1
110°	327.3	327.7	328.2	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.8	363.4	364.0	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0
115°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3
117.5°	470.7	470.6	470.5	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9
120°	505.1	504.7	504.4	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7
122.5°	538.1	537.7	537.4	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1
125°	586.2	586.3	586.4	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7
127.5°	630.5	630.4	630.3	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9
130°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2
132.5°	687.1	686.9	686.8	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9
135°	726.4	726.7	727.1	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1
137.5°	762.4	762.3	762.2	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7
140°	785.9	786.0	786.2	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4
142.5°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3
145°	836.2	836.5	836.9	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3
147.5°	862.2	862.3	862.5	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7
150°	878.7	878.8	879.0	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4
152.5°	893.6	893.5	893.4	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2
155°	913.8	913.3	912.9	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9
157.5°	930.9	930.0	929.2	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0
160°	941.9	940.8	939.9	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8
162.5°	950.5	949.3	948.3	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7
165°	963.2	961.8	960.3	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1
167.5°	972.4	970.7	969.1	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3
170°	977.7	976.1	974.4	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9
172.5°	981.1	979.3	977.5	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4
175°	985.3	983.4	981.4	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6
177.5°	986.5	985.0	983.4	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	16.6	15.6	14.3	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3
95°	17.2	16.2	16.0	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5
97.5°	19.5	19.4	37.7	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1
100°	29.6	32.4	55.0	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8
102.5°	126.2	156.3	159.2	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8
105°	231.4	229.9	229.1	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8
107.5°	287.4	286.7	285.6	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5
110°	325.4	325.0	324.0	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	362.1	362.1	361.7	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1
115°	415.9	415.7	415.8	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2
117.5°	471.0	471.1	470.7	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5
120°	504.4	504.1	504.3	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9
122.5°	537.9	537.7	537.4	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9
125°	584.2	583.7	584.0	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2
127.5°	631.0	631.1	630.4	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0
130°	659.0	658.8	658.4	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9
132.5°	686.7	686.5	685.9	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4
135°	724.7	724.4	723.8	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3
137.5°	761.4	761.0	760.3	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4
140°	783.9	783.3	783.1	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4
142.5°	805.0	804.6	804.5	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1
145°	835.2	835.0	835.0	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7
147.5°	861.5	861.4	861.5	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0
150°	878.4	878.4	878.6	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3
152.5°	892.9	892.6	892.9	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6
155°	912.3	911.6	912.1	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1
157.5°	929.2	928.3	928.9	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2
160°	939.9	938.9	939.1	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9
162.5°	948.8	947.7	947.9	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3
165°	960.8	959.5	959.5	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2
167.5°	969.8	968.4	968.5	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6
170°	975.5	974.3	974.1	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0
172.5°	979.1	977.8	977.6	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5
175°	983.1	981.7	981.5	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3
177.5°	985.1	984.1	983.9	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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**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°	9.4	9.5	9.6	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6
95°	35.0	29.4	23.8	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2
97.5°	89.5	93.0	96.5	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7
100°	123.9	126.8	129.7	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9
102.5°	161.9	164.1	166.3	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1
105°	222.8	223.8	224.8	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9
107.5°	279.9	280.4	281.0	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1
110°	318.9	319.3	319.8	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.9	357.9	358.7	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0
115°	414.6	415.2	415.7	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3
117.5°	467.1	467.8	468.4	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9
120°	502.6	503.2	503.9	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7
122.5°	535.3	535.6	536.0	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1
125°	582.9	583.5	584.2	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7
127.5°	627.2	627.4	627.5	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9
130°	656.1	656.2	656.4	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2
132.5°	682.7	683.1	683.3	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9
135°	722.1	721.9	721.7	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1
137.5°	757.5	757.6	757.6	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7
140°	780.8	781.1	781.5	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4
142.5°	801.6	802.3	802.9	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3
145°	833.3	833.8	834.2	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3
147.5°	858.9	859.8	860.7	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7
150°	876.9	877.6	878.3	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4
152.5°	892.1	892.6	893.2	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2
155°	913.2	913.4	913.6	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9
157.5°	931.1	931.0	930.9	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0
160°	941.3	940.8	940.4	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8
162.5°	950.6	950.0	949.4	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7
165°	962.4	961.6	960.7	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1
167.5°	971.8	970.9	970.1	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3
170°	976.9	976.0	975.0	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9
172.5°	980.5	979.5	978.5	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4
175°	984.3	983.4	982.4	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6
177.5°	986.2	985.2	984.3	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	18.6	19.5	20.1	20.2	20.2	20.3	20.4
95°	19.1	20.2	20.7	20.9	21.0	21.2	21.4
97.5°	19.8	19.9	20.0	20.2	20.3	20.5	20.6
100°	24.0	21.3	20.0	20.2	20.3	20.5	20.6
102.5°	66.2	36.1	21.1	21.1	21.1	21.2	21.2
105°	234.3	235.8	233.7	227.7	221.8	215.9	210.0
107.5°	288.8	289.5	290.2	290.9	291.4	292.1	292.8
110°	326.0	326.3	326.7	327.3	327.7	328.2	328.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.9	361.8	362.1	362.8	363.4	364.0	364.7
115°	416.6	417.0	417.2	417.2	417.2	417.2	417.2
117.5°	470.9	470.8	470.7	470.7	470.6	470.5	470.5
120°	505.1	505.4	505.4	505.1	504.7	504.4	504.1
122.5°	538.3	538.5	538.4	538.1	537.7	537.4	537.1
125°	585.1	585.6	586.0	586.2	586.3	586.4	586.6
127.5°	630.8	630.7	630.7	630.5	630.4	630.3	630.1
130°	659.3	659.5	659.6	659.6	659.6	659.6	659.6
132.5°	687.0	687.2	687.2	687.1	686.9	686.8	686.7
135°	725.4	725.8	726.0	726.4	726.7	727.1	727.4
137.5°	762.0	762.4	762.5	762.4	762.3	762.2	762.1
140°	784.9	785.3	785.7	785.9	786.0	786.2	786.4
142.5°	805.7	806.1	806.3	806.3	806.3	806.3	806.3
145°	835.5	835.7	835.8	836.2	836.5	836.9	837.2
147.5°	861.8	861.9	862.0	862.2	862.3	862.5	862.7
150°	878.4	878.4	878.5	878.7	878.8	879.0	879.2
152.5°	893.4	893.6	893.7	893.6	893.5	893.4	893.3
155°	913.6	914.3	914.4	913.8	913.3	912.9	912.4
157.5°	930.9	931.7	931.7	930.9	930.0	929.2	928.3
160°	941.9	942.8	942.8	941.9	940.8	939.9	938.9
162.5°	950.6	951.7	951.6	950.5	949.3	948.3	947.2
165°	963.5	964.8	964.7	963.2	961.8	960.3	958.8
167.5°	972.7	974.1	974.0	972.4	970.7	969.1	967.5
170°	978.2	979.5	979.3	977.7	976.1	974.4	972.8
172.5°	981.8	983.1	982.8	981.1	979.3	977.5	975.7
175°	986.1	987.5	987.3	985.3	983.4	981.4	979.4
177.5°	987.3	988.4	988.1	986.5	985.0	983.4	981.8
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3

(END OF REPORT)