

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: P332663-927

Luminaire Tested: **S124DIP-S1020D1205U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332663-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1205U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057.7 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

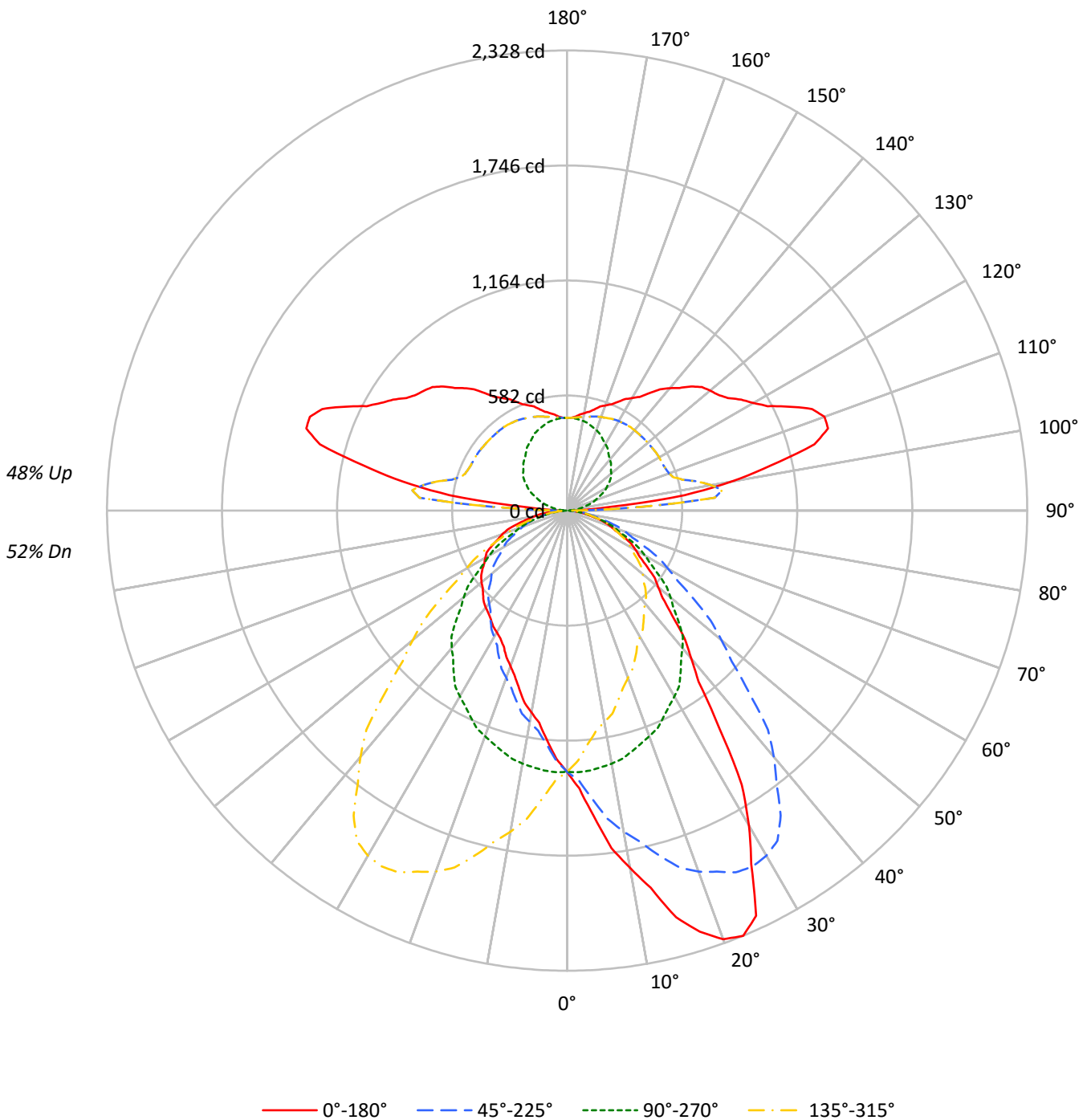
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52				
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44				
2	90	82	76	71	83	77	71	67	65	61	58	55	52	50	45	44	42	37				
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32				
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	33	31	27				
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	30	27	24				
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21				
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19				
8	55	42	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15				
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.8
10°-20°	397.0	5.6
20°-30°	629.5	8.9
30°-40°	700.6	9.9
40°-50°	637.7	9.0
50°-60°	521.1	7.4
60°-70°	372.0	5.3
70°-80°	204.9	2.9
80°-90°	58.5	0.8
90°-100°	338.4	4.8
100°-110°	704.3	10.0
110°-120°	630.9	8.9
120°-130°	530.7	7.5
130°-140°	442.5	6.3
140°-150°	338.0	4.8
150°-160°	237.6	3.4
160°-170°	139.8	2.0
170°-180°	45.5	0.6
0°-30°	1155.3	16.4
0°-40°	1855.8	26.3
0°-60°	3014.6	42.7
0°-90°	3650.0	51.7
90°-120°	1673.6	23.7
90°-150°	2984.8	42.3
90°-180°	3408.0	48.3
0°-180°	7057.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	41
90°	19	1	19	1	19	17
95°	225	30	225	30	225	349
105°	1295	108	1295	108	1295	1280
115°	1244	190	1244	190	1244	1235
125°	992	264	992	264	992	902
135°	887	314	887	314	887	685
145°	724	362	724	362	724	459
155°	607	412	607	412	607	283
165°	529	448	529	448	529	152
175°	477	468	477	468	477	46
180°	469	469	469	469	469	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	13.5	14.8	15.0	15.3	15.9	16.4	16.6	16.0	17.6	18.2	19.6
90°	19.3	19.3	20.3	19.3	18.4	18.4	17.5	16.6	15.7	16.6	14.7
92.5°	70.9	70.9	74.0	79.0	89.8	108.3	136.0	180.8	243.2	292.0	255.6
95°	224.6	236.5	253.2	281.7	326.8	416.1	539.4	682.1	771.4	750.2	566.1
97.5°	600.4	619.5	647.1	702.5	768.7	864.7	954.7	1007.8	969.2	790.2	529.8
100°	844.1	851.5	879.1	935.3	1015.3	1083.5	1128.5	1110.2	975.7	740.1	480.5
102.5°	1056.2	1062.1	1091.2	1131.9	1181.0	1209.3	1196.3	1105.0	920.5	677.5	447.3
105°	1295.1	1300.7	1313.6	1321.0	1319.1	1281.4	1190.3	1030.9	820.1	603.9	418.8
107.5°	1383.9	1381.5	1372.3	1351.3	1305.8	1223.8	1095.4	925.8	739.2	562.6	413.7
110°	1385.4	1377.1	1360.5	1321.8	1256.5	1155.2	1021.8	862.5	698.7	548.7	415.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1342.0	1328.5	1305.3	1258.5	1184.3	1083.1	957.0	816.1	675.8	542.0	419.5
115°	1243.6	1236.3	1206.8	1151.6	1078.9	990.5	882.8	769.5	654.5	538.5	428.0
117.5°	1144.0	1138.3	1108.5	1062.1	1000.1	925.1	840.4	746.7	644.9	537.6	437.0
120°	1088.1	1077.9	1054.0	1013.5	961.0	895.6	822.0	736.4	639.8	537.6	443.7
122.5°	1043.9	1033.7	1013.5	978.9	934.5	877.3	810.2	727.5	633.9	536.9	450.4
125°	992.3	986.8	969.3	942.6	905.8	855.2	791.6	712.5	624.1	535.8	460.3
127.5°	962.1	956.6	941.9	918.1	881.1	833.1	769.8	694.0	611.0	533.7	468.2
130°	944.4	938.9	924.2	901.2	863.5	814.7	752.1	679.4	602.9	533.0	474.0
132.5°	924.6	919.0	905.1	879.1	842.1	793.3	732.2	663.8	595.6	532.3	479.2
135°	887.4	881.9	867.1	841.4	804.5	758.5	702.3	642.5	584.6	531.2	487.0
137.5°	841.4	834.7	822.6	797.2	762.7	721.1	673.8	623.2	575.0	530.9	491.5
140°	808.2	800.8	788.0	767.7	735.5	696.8	655.4	612.1	569.8	530.2	495.3
142.5°	772.9	767.7	756.3	737.5	709.0	675.5	639.9	601.8	565.4	530.2	498.2
145°	724.5	719.9	710.7	695.0	672.0	646.2	618.6	587.3	557.9	528.4	499.9
147.5°	681.5	679.9	672.9	659.5	642.5	622.3	600.2	575.4	551.0	525.1	500.7
150°	657.3	656.3	650.8	638.8	624.1	607.5	589.1	568.0	545.9	522.8	500.7
152.5°	635.2	634.2	630.9	621.2	608.6	595.0	578.1	559.8	540.0	519.2	499.3
155°	606.7	606.7	603.9	596.5	587.3	576.2	562.4	547.7	531.2	513.7	497.1
157.5°	581.6	581.6	580.0	574.4	567.4	558.6	547.0	534.6	522.1	507.9	494.7
160°	566.1	566.1	565.2	559.7	554.1	546.8	536.6	526.6	515.5	503.5	492.5
162.5°	551.4	552.2	551.2	545.7	541.6	535.0	527.1	518.4	509.6	499.1	490.3
165°	529.3	530.2	531.2	527.4	523.8	519.2	512.7	507.2	499.9	492.5	486.0
167.5°	511.8	512.5	512.7	510.3	508.5	505.7	500.6	496.4	491.0	485.8	481.6
170°	500.7	500.7	501.7	500.7	498.9	496.1	492.5	489.7	485.1	481.4	478.6
172.5°	489.7	491.2	492.1	491.2	490.0	488.1	485.8	483.8	480.0	477.0	475.7
175°	476.8	478.6	480.5	478.6	478.6	478.6	476.8	475.9	474.0	472.2	472.2
177.5°	469.3	470.7	472.2	471.5	472.2	471.5	471.5	470.7	470.0	469.3	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	19.3	19.6	18.1	16.4	14.9	13.4	12.4	11.6	12.4	13.4	14.0
90°	12.9	12.9	7.4	7.4	6.4	5.5	2.8	1.0	2.8	5.5	6.4
92.5°	185.9	114.5	67.7	48.6	35.2	23.9	15.3	10.5	15.3	23.9	35.2
95°	346.1	195.1	115.1	76.4	54.3	42.4	33.1	30.3	33.1	42.4	54.3
97.5°	311.2	186.5	124.8	92.4	73.4	62.4	54.5	54.5	54.5	62.4	73.4
100°	292.7	188.7	134.4	105.0	87.5	76.4	69.9	69.9	69.9	76.4	87.5
102.5°	287.6	196.1	146.9	118.9	102.2	91.9	86.2	84.7	86.2	91.9	102.2
105°	289.9	213.6	169.4	142.7	126.1	115.1	110.4	107.7	110.4	115.1	126.1
107.5°	303.6	234.0	193.5	167.2	151.3	139.6	134.9	133.1	134.9	139.6	151.3
110°	313.9	249.5	209.0	184.1	167.5	156.5	151.9	150.0	151.9	156.5	167.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	325.0	264.2	225.1	200.3	183.7	173.4	168.1	166.3	168.1	173.4	183.7
115°	342.5	287.2	250.4	225.5	208.0	198.8	192.4	189.6	192.4	198.8	208.0
117.5°	360.3	309.5	274.5	248.7	232.3	222.2	216.5	213.9	216.5	222.2	232.3
120°	372.8	325.0	289.9	264.2	248.5	238.4	232.0	230.1	232.0	238.4	248.5
122.5°	384.6	339.7	304.7	279.6	262.5	253.2	246.7	244.9	246.7	253.2	262.5
125°	402.3	359.9	326.8	301.0	283.5	273.4	267.8	264.2	267.8	273.4	283.5
127.5°	417.6	378.7	346.7	320.7	302.5	290.9	284.2	281.3	284.2	290.9	302.5
130°	427.1	391.3	359.9	333.2	315.8	301.9	294.5	290.9	294.5	301.9	315.8
132.5°	436.7	401.6	370.3	345.0	326.1	313.0	303.4	300.5	303.4	313.0	326.1
135°	449.2	416.1	385.7	361.8	342.5	326.8	317.6	313.9	317.6	326.8	342.5
137.5°	458.0	427.1	398.8	376.0	355.8	341.0	330.8	327.3	330.8	341.0	355.8
140°	463.9	434.5	406.9	384.8	365.4	349.8	339.7	336.9	339.7	349.8	365.4
142.5°	468.3	441.1	414.2	392.8	374.3	359.3	350.0	347.2	350.0	359.3	374.3
145°	473.2	448.3	424.4	404.1	386.6	373.8	364.6	361.8	364.6	373.8	386.6
147.5°	477.4	455.7	433.2	414.9	400.4	387.1	379.1	378.1	379.1	387.1	400.4
150°	479.6	459.3	439.1	421.6	407.8	396.7	389.4	388.5	389.4	396.7	407.8
152.5°	481.1	462.3	444.3	428.3	415.9	405.6	398.2	398.0	398.2	405.6	415.9
155°	482.4	466.7	451.1	437.3	427.1	417.9	412.4	411.5	412.4	417.9	427.1
157.5°	482.4	469.8	456.6	445.7	436.9	429.7	424.5	424.5	424.5	429.7	436.9
160°	482.4	471.3	460.3	450.1	442.8	436.3	432.6	432.6	432.6	436.3	442.8
162.5°	482.4	472.8	462.5	454.6	447.9	442.2	439.3	440.0	439.3	442.2	447.9
165°	480.5	473.2	464.9	459.3	454.7	450.1	448.3	448.3	448.3	450.1	454.7
167.5°	478.3	472.9	466.9	462.6	460.1	456.6	455.7	456.6	455.7	456.6	460.1
170°	476.8	472.2	467.6	464.9	463.0	460.3	459.3	460.3	459.3	460.3	463.0
172.5°	475.4	471.5	468.3	466.4	465.2	463.2	463.0	463.9	463.0	463.2	465.2
175°	473.2	470.4	468.6	468.6	467.6	466.7	466.7	467.6	466.7	466.7	467.6
177.5°	470.7	469.3	468.6	468.6	468.6	467.8	468.6	469.3	468.6	467.8	468.6
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	15.5	15.5	18.4	19.3	20.9	23.4	24.2	29.2	31.1	33.5	37.4
90°	7.4	7.4	12.9	12.9	14.7	16.6	15.7	16.6	17.5	18.4	18.4
92.5°	48.6	67.7	114.5	185.9	255.6	292.0	243.2	180.8	136.0	108.3	89.8
95°	76.4	115.1	195.1	346.1	566.1	750.2	771.4	682.1	539.4	416.1	326.8
97.5°	92.4	124.8	186.5	311.2	529.8	790.2	969.2	1007.8	954.7	864.7	768.7
100°	105.0	134.4	188.7	292.7	480.5	740.1	975.7	1110.2	1128.5	1083.5	1015.3
102.5°	118.9	146.9	196.1	287.6	447.3	677.5	920.5	1105.0	1196.3	1209.3	1181.0
105°	142.7	169.4	213.6	289.9	418.8	603.9	820.1	1030.9	1190.3	1281.4	1319.1
107.5°	167.2	193.5	234.0	303.6	413.7	562.6	739.2	925.8	1095.4	1223.8	1305.8
110°	184.1	209.0	249.5	313.9	415.2	548.7	698.7	862.5	1021.8	1155.2	1256.5



TEST NUMBER: P332663-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.3	225.1	264.2	325.0	419.5	542.0	675.8	816.1	957.0	1083.1	1184.3
115°	225.5	250.4	287.2	342.5	428.0	538.5	654.5	769.5	882.8	990.5	1078.9
117.5°	248.7	274.5	309.5	360.3	437.0	537.6	644.9	746.7	840.4	925.1	1000.1
120°	264.2	289.9	325.0	372.8	443.7	537.6	639.8	736.4	822.0	895.6	961.0
122.5°	279.6	304.7	339.7	384.6	450.4	536.9	633.9	727.5	810.2	877.3	934.5
125°	301.0	326.8	359.9	402.3	460.3	535.8	624.1	712.5	791.6	855.2	905.8
127.5°	320.7	346.7	378.7	417.6	468.2	533.7	611.0	694.0	769.8	833.1	881.1
130°	333.2	359.9	391.3	427.1	474.0	533.0	602.9	679.4	752.1	814.7	863.5
132.5°	345.0	370.3	401.6	436.7	479.2	532.3	595.6	663.8	732.2	793.3	842.1
135°	361.8	385.7	416.1	449.2	487.0	531.2	584.6	642.5	702.3	758.5	804.5
137.5°	376.0	398.8	427.1	458.0	491.5	530.9	575.0	623.2	673.8	721.1	762.7
140°	384.8	406.9	434.5	463.9	495.3	530.2	569.8	612.1	655.4	696.8	735.5
142.5°	392.8	414.2	441.1	468.3	498.2	530.2	565.4	601.8	639.9	675.5	709.0
145°	404.1	424.4	448.3	473.2	499.9	528.4	557.9	587.3	618.6	646.2	672.0
147.5°	414.9	433.2	455.7	477.4	500.7	525.1	551.0	575.4	600.2	622.3	642.5
150°	421.6	439.1	459.3	479.6	500.7	522.8	545.9	568.0	589.1	607.5	624.1
152.5°	428.3	444.3	462.3	481.1	499.3	519.2	540.0	559.8	578.1	595.0	608.6
155°	437.3	451.1	466.7	482.4	497.1	513.7	531.2	547.7	562.4	576.2	587.3
157.5°	445.7	456.6	469.8	482.4	494.7	507.9	522.1	534.6	547.0	558.6	567.4
160°	450.1	460.3	471.3	482.4	492.5	503.5	515.5	526.6	536.6	546.8	554.1
162.5°	454.6	462.5	472.8	482.4	490.3	499.1	509.6	518.4	527.1	535.0	541.6
165°	459.3	464.9	473.2	480.5	486.0	492.5	499.9	507.2	512.7	519.2	523.8
167.5°	462.6	466.9	472.9	478.3	481.6	485.8	491.0	496.4	500.6	505.7	508.5
170°	464.9	467.6	472.2	476.8	478.6	481.4	485.1	489.7	492.5	496.1	498.9
172.5°	466.4	468.3	471.5	475.4	475.7	477.0	480.0	483.8	485.8	488.1	490.0
175°	468.6	468.6	470.4	473.2	472.2	472.2	474.0	475.9	476.8	478.6	478.6
177.5°	468.6	468.6	469.3	470.7	469.3	469.3	470.0	470.7	471.5	471.5	472.2
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



TEST NUMBER: P332663-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	38.9	39.5	40.6	41.5	40.6	39.5	38.9	37.4	33.5	31.1	29.2
90°	19.3	20.3	19.3	19.3	19.3	20.3	19.3	18.4	18.4	17.5	16.6
92.5°	79.0	74.0	70.9	70.9	70.9	74.0	79.0	89.8	108.3	136.0	180.8
95°	281.7	253.2	236.5	224.6	236.5	253.2	281.7	326.8	416.1	539.4	682.1
97.5°	702.5	647.1	619.5	600.4	619.5	647.1	702.5	768.7	864.7	954.7	1007.8
100°	935.3	879.1	851.5	844.1	851.5	879.1	935.3	1015.3	1083.5	1128.5	1110.2
102.5°	1131.9	1091.2	1062.1	1056.2	1062.1	1091.2	1131.9	1181.0	1209.3	1196.3	1105.0
105°	1321.0	1313.6	1300.7	1295.1	1300.7	1313.6	1321.0	1319.1	1281.4	1190.3	1030.9
107.5°	1351.3	1372.3	1381.5	1383.9	1381.5	1372.3	1351.3	1305.8	1223.8	1095.4	925.8
110°	1321.8	1360.5	1377.1	1385.4	1377.1	1360.5	1321.8	1256.5	1155.2	1021.8	862.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1258.5	1305.3	1328.5	1342.0	1328.5	1305.3	1258.5	1184.3	1083.1	957.0	816.1
115°	1151.6	1206.8	1236.3	1243.6	1236.3	1206.8	1151.6	1078.9	990.5	882.8	769.5
117.5°	1062.1	1108.5	1138.3	1144.0	1138.3	1108.5	1062.1	1000.1	925.1	840.4	746.7
120°	1013.5	1054.0	1077.9	1088.1	1077.9	1054.0	1013.5	961.0	895.6	822.0	736.4
122.5°	978.9	1013.5	1033.7	1043.9	1033.7	1013.5	978.9	934.5	877.3	810.2	727.5
125°	942.6	969.3	986.8	992.3	986.8	969.3	942.6	905.8	855.2	791.6	712.5
127.5°	918.1	941.9	956.6	962.1	956.6	941.9	918.1	881.1	833.1	769.8	694.0
130°	901.2	924.2	938.9	944.4	938.9	924.2	901.2	863.5	814.7	752.1	679.4
132.5°	879.1	905.1	919.0	924.6	919.0	905.1	879.1	842.1	793.3	732.2	663.8
135°	841.4	867.1	881.9	887.4	881.9	867.1	841.4	804.5	758.5	702.3	642.5
137.5°	797.2	822.6	834.7	841.4	834.7	822.6	797.2	762.7	721.1	673.8	623.2
140°	767.7	788.0	800.8	808.2	800.8	788.0	767.7	735.5	696.8	655.4	612.1
142.5°	737.5	756.3	767.7	772.9	767.7	756.3	737.5	709.0	675.5	639.9	601.8
145°	695.0	710.7	719.9	724.5	719.9	710.7	695.0	672.0	646.2	618.6	587.3
147.5°	659.5	672.9	679.9	681.5	679.9	672.9	659.5	642.5	622.3	600.2	575.4
150°	638.8	650.8	656.3	657.3	656.3	650.8	638.8	624.1	607.5	589.1	568.0
152.5°	621.2	630.9	634.2	635.2	634.2	630.9	621.2	608.6	595.0	578.1	559.8
155°	596.5	603.9	606.7	606.7	606.7	603.9	596.5	587.3	576.2	562.4	547.7
157.5°	574.4	580.0	581.6	581.6	581.6	580.0	574.4	567.4	558.6	547.0	534.6
160°	559.7	565.2	566.1	566.1	566.1	565.2	559.7	554.1	546.8	536.6	526.6
162.5°	545.7	551.2	552.2	551.4	552.2	551.2	545.7	541.6	535.0	527.1	518.4
165°	527.4	531.2	530.2	529.3	530.2	531.2	527.4	523.8	519.2	512.7	507.2
167.5°	510.3	512.7	512.5	511.8	512.5	512.7	510.3	508.5	505.7	500.6	496.4
170°	500.7	501.7	500.7	500.7	500.7	501.7	500.7	498.9	496.1	492.5	489.7
172.5°	491.2	492.1	491.2	489.7	491.2	492.1	491.2	490.0	488.1	485.8	483.8
175°	478.6	480.5	478.6	476.8	478.6	480.5	478.6	478.6	478.6	476.8	475.9
177.5°	471.5	472.2	470.7	469.3	470.7	472.2	471.5	472.2	471.5	471.5	470.7
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	24.2	23.4	20.9	19.3	18.4	15.5	15.5	14.0	13.4	12.4	11.6
90°	15.7	16.6	14.7	12.9	12.9	7.4	7.4	6.4	5.5	2.8	1.0
92.5°	243.2	292.0	255.6	185.9	114.5	67.7	48.6	35.2	23.9	15.3	10.5
95°	771.4	750.2	566.1	346.1	195.1	115.1	76.4	54.3	42.4	33.1	30.3
97.5°	969.2	790.2	529.8	311.2	186.5	124.8	92.4	73.4	62.4	54.5	54.5
100°	975.7	740.1	480.5	292.7	188.7	134.4	105.0	87.5	76.4	69.9	69.9
102.5°	920.5	677.5	447.3	287.6	196.1	146.9	118.9	102.2	91.9	86.2	84.7
105°	820.1	603.9	418.8	289.9	213.6	169.4	142.7	126.1	115.1	110.4	107.7
107.5°	739.2	562.6	413.7	303.6	234.0	193.5	167.2	151.3	139.6	134.9	133.1
110°	698.7	548.7	415.2	313.9	249.5	209.0	184.1	167.5	156.5	151.9	150.0



TEST NUMBER: P332663-927

CATALOG NUMBER: S124DIP-S1020D1205U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	675.8	542.0	419.5	325.0	264.2	225.1	200.3	183.7	173.4	168.1	166.3
115°	654.5	538.5	428.0	342.5	287.2	250.4	225.5	208.0	198.8	192.4	189.6
117.5°	644.9	537.6	437.0	360.3	309.5	274.5	248.7	232.3	222.2	216.5	213.9
120°	639.8	537.6	443.7	372.8	325.0	289.9	264.2	248.5	238.4	232.0	230.1
122.5°	633.9	536.9	450.4	384.6	339.7	304.7	279.6	262.5	253.2	246.7	244.9
125°	624.1	535.8	460.3	402.3	359.9	326.8	301.0	283.5	273.4	267.8	264.2
127.5°	611.0	533.7	468.2	417.6	378.7	346.7	320.7	302.5	290.9	284.2	281.3
130°	602.9	533.0	474.0	427.1	391.3	359.9	333.2	315.8	301.9	294.5	290.9
132.5°	595.6	532.3	479.2	436.7	401.6	370.3	345.0	326.1	313.0	303.4	300.5
135°	584.6	531.2	487.0	449.2	416.1	385.7	361.8	342.5	326.8	317.6	313.9
137.5°	575.0	530.9	491.5	458.0	427.1	398.8	376.0	355.8	341.0	330.8	327.3
140°	569.8	530.2	495.3	463.9	434.5	406.9	384.8	365.4	349.8	339.7	336.9
142.5°	565.4	530.2	498.2	468.3	441.1	414.2	392.8	374.3	359.3	350.0	347.2
145°	557.9	528.4	499.9	473.2	448.3	424.4	404.1	386.6	373.8	364.6	361.8
147.5°	551.0	525.1	500.7	477.4	455.7	433.2	414.9	400.4	387.1	379.1	378.1
150°	545.9	522.8	500.7	479.6	459.3	439.1	421.6	407.8	396.7	389.4	388.5
152.5°	540.0	519.2	499.3	481.1	462.3	444.3	428.3	415.9	405.6	398.2	398.0
155°	531.2	513.7	497.1	482.4	466.7	451.1	437.3	427.1	417.9	412.4	411.5
157.5°	522.1	507.9	494.7	482.4	469.8	456.6	445.7	436.9	429.7	424.5	424.5
160°	515.5	503.5	492.5	482.4	471.3	460.3	450.1	442.8	436.3	432.6	432.6
162.5°	509.6	499.1	490.3	482.4	472.8	462.5	454.6	447.9	442.2	439.3	440.0
165°	499.9	492.5	486.0	480.5	473.2	464.9	459.3	454.7	450.1	448.3	448.3
167.5°	491.0	485.8	481.6	478.3	472.9	466.9	462.6	460.1	456.6	455.7	456.6
170°	485.1	481.4	478.6	476.8	472.2	467.6	464.9	463.0	460.3	459.3	460.3
172.5°	480.0	477.0	475.7	475.4	471.5	468.3	466.4	465.2	463.2	463.0	463.9
175°	474.0	472.2	472.2	473.2	470.4	468.6	468.6	467.6	466.7	466.7	467.6
177.5°	470.0	469.3	469.3	470.7	469.3	468.6	468.6	468.6	467.8	468.6	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



TEST NUMBER: P332663-927

CATALOG NUMBER: S124DIP-S1020D1205U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.4	13.4	14.9	16.4	18.1	19.6	19.3	19.6	18.2	17.6	16.0
90°	2.8	5.5	6.4	7.4	7.4	12.9	12.9	14.7	16.6	15.7	16.6
92.5°	15.3	23.9	35.2	48.6	67.7	114.5	185.9	255.6	292.0	243.2	180.8
95°	33.1	42.4	54.3	76.4	115.1	195.1	346.1	566.1	750.2	771.4	682.1
97.5°	54.5	62.4	73.4	92.4	124.8	186.5	311.2	529.8	790.2	969.2	1007.8
100°	69.9	76.4	87.5	105.0	134.4	188.7	292.7	480.5	740.1	975.7	1110.2
102.5°	86.2	91.9	102.2	118.9	146.9	196.1	287.6	447.3	677.5	920.5	1105.0
105°	110.4	115.1	126.1	142.7	169.4	213.6	289.9	418.8	603.9	820.1	1030.9
107.5°	134.9	139.6	151.3	167.2	193.5	234.0	303.6	413.7	562.6	739.2	925.8
110°	151.9	156.5	167.5	184.1	209.0	249.5	313.9	415.2	548.7	698.7	862.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.1	173.4	183.7	200.3	225.1	264.2	325.0	419.5	542.0	675.8	816.1
115°	192.4	198.8	208.0	225.5	250.4	287.2	342.5	428.0	538.5	654.5	769.5
117.5°	216.5	222.2	232.3	248.7	274.5	309.5	360.3	437.0	537.6	644.9	746.7
120°	232.0	238.4	248.5	264.2	289.9	325.0	372.8	443.7	537.6	639.8	736.4
122.5°	246.7	253.2	262.5	279.6	304.7	339.7	384.6	450.4	536.9	633.9	727.5
125°	267.8	273.4	283.5	301.0	326.8	359.9	402.3	460.3	535.8	624.1	712.5
127.5°	284.2	290.9	302.5	320.7	346.7	378.7	417.6	468.2	533.7	611.0	694.0
130°	294.5	301.9	315.8	333.2	359.9	391.3	427.1	474.0	533.0	602.9	679.4
132.5°	303.4	313.0	326.1	345.0	370.3	401.6	436.7	479.2	532.3	595.6	663.8
135°	317.6	326.8	342.5	361.8	385.7	416.1	449.2	487.0	531.2	584.6	642.5
137.5°	330.8	341.0	355.8	376.0	398.8	427.1	458.0	491.5	530.9	575.0	623.2
140°	339.7	349.8	365.4	384.8	406.9	434.5	463.9	495.3	530.2	569.8	612.1
142.5°	350.0	359.3	374.3	392.8	414.2	441.1	468.3	498.2	530.2	565.4	601.8
145°	364.6	373.8	386.6	404.1	424.4	448.3	473.2	499.9	528.4	557.9	587.3
147.5°	379.1	387.1	400.4	414.9	433.2	455.7	477.4	500.7	525.1	551.0	575.4
150°	389.4	396.7	407.8	421.6	439.1	459.3	479.6	500.7	522.8	545.9	568.0
152.5°	398.2	405.6	415.9	428.3	444.3	462.3	481.1	499.3	519.2	540.0	559.8
155°	412.4	417.9	427.1	437.3	451.1	466.7	482.4	497.1	513.7	531.2	547.7
157.5°	424.5	429.7	436.9	445.7	456.6	469.8	482.4	494.7	507.9	522.1	534.6
160°	432.6	436.3	442.8	450.1	460.3	471.3	482.4	492.5	503.5	515.5	526.6
162.5°	439.3	442.2	447.9	454.6	462.5	472.8	482.4	490.3	499.1	509.6	518.4
165°	448.3	450.1	454.7	459.3	464.9	473.2	480.5	486.0	492.5	499.9	507.2
167.5°	455.7	456.6	460.1	462.6	466.9	472.9	478.3	481.6	485.8	491.0	496.4
170°	459.3	460.3	463.0	464.9	467.6	472.2	476.8	478.6	481.4	485.1	489.7
172.5°	463.0	463.2	465.2	466.4	468.3	471.5	475.4	475.7	477.0	480.0	483.8
175°	466.7	466.7	467.6	468.6	468.6	470.4	473.2	472.2	472.2	474.0	475.9
177.5°	468.6	467.8	468.6	468.6	468.6	469.3	470.7	469.3	469.3	470.0	470.7
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	16.6	16.4	15.9	15.3	15.0	14.8	13.5
90°	17.5	18.4	18.4	19.3	20.3	19.3	19.3
92.5°	136.0	108.3	89.8	79.0	74.0	70.9	70.9
95°	539.4	416.1	326.8	281.7	253.2	236.5	224.6
97.5°	954.7	864.7	768.7	702.5	647.1	619.5	600.4
100°	1128.5	1083.5	1015.3	935.3	879.1	851.5	844.1
102.5°	1196.3	1209.3	1181.0	1131.9	1091.2	1062.1	1056.2
105°	1190.3	1281.4	1319.1	1321.0	1313.6	1300.7	1295.1
107.5°	1095.4	1223.8	1305.8	1351.3	1372.3	1381.5	1383.9
110°	1021.8	1155.2	1256.5	1321.8	1360.5	1377.1	1385.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	957.0	1083.1	1184.3	1258.5	1305.3	1328.5	1342.0
115°	882.8	990.5	1078.9	1151.6	1206.8	1236.3	1243.6
117.5°	840.4	925.1	1000.1	1062.1	1108.5	1138.3	1144.0
120°	822.0	895.6	961.0	1013.5	1054.0	1077.9	1088.1
122.5°	810.2	877.3	934.5	978.9	1013.5	1033.7	1043.9
125°	791.6	855.2	905.8	942.6	969.3	986.8	992.3
127.5°	769.8	833.1	881.1	918.1	941.9	956.6	962.1
130°	752.1	814.7	863.5	901.2	924.2	938.9	944.4
132.5°	732.2	793.3	842.1	879.1	905.1	919.0	924.6
135°	702.3	758.5	804.5	841.4	867.1	881.9	887.4
137.5°	673.8	721.1	762.7	797.2	822.6	834.7	841.4
140°	655.4	696.8	735.5	767.7	788.0	800.8	808.2
142.5°	639.9	675.5	709.0	737.5	756.3	767.7	772.9
145°	618.6	646.2	672.0	695.0	710.7	719.9	724.5
147.5°	600.2	622.3	642.5	659.5	672.9	679.9	681.5
150°	589.1	607.5	624.1	638.8	650.8	656.3	657.3
152.5°	578.1	595.0	608.6	621.2	630.9	634.2	635.2
155°	562.4	576.2	587.3	596.5	603.9	606.7	606.7
157.5°	547.0	558.6	567.4	574.4	580.0	581.6	581.6
160°	536.6	546.8	554.1	559.7	565.2	566.1	566.1
162.5°	527.1	535.0	541.6	545.7	551.2	552.2	551.4
165°	512.7	519.2	523.8	527.4	531.2	530.2	529.3
167.5°	500.6	505.7	508.5	510.3	512.7	512.5	511.8
170°	492.5	496.1	498.9	500.7	501.7	500.7	500.7
172.5°	485.8	488.1	490.0	491.2	492.1	491.2	489.7
175°	476.8	478.6	478.6	478.6	480.5	478.6	476.8
177.5°	471.5	471.5	472.2	471.5	472.2	470.7	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6

(END OF REPORT)