

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: P331928-840

Luminaire Tested: **S123DIP-S560D805U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331928-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D805U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5653.1 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

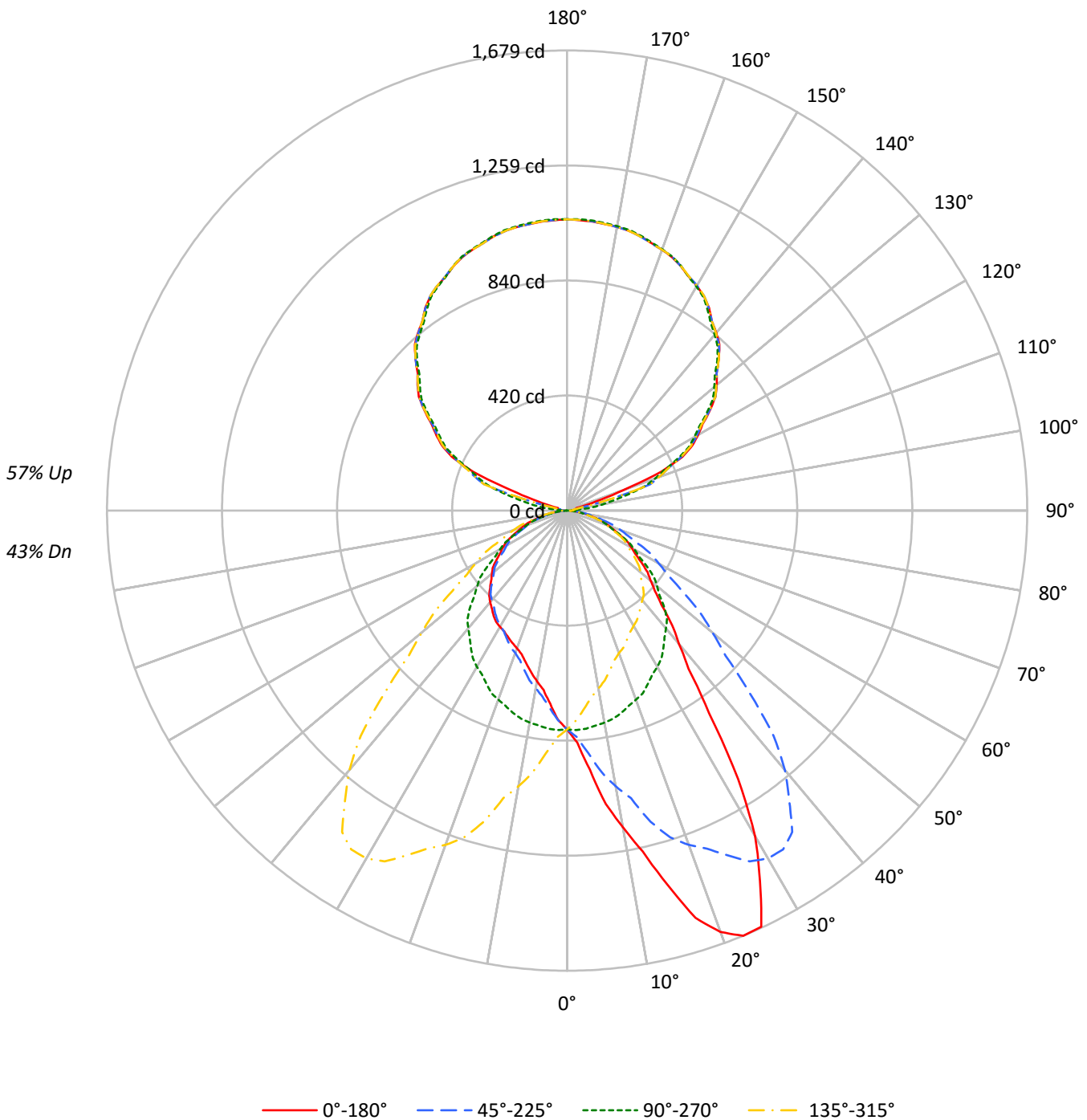
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																												
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42	36																												
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31																												
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26																												
4	74	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23																												
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20																												
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17																												
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16																												
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	18	16	14																												
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15	13																												
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13	11																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8593	8593	8593	8593
5°	10247	8630	7648	8630
10°	12826	8587	6908	8587
15°	15731	8517	6430	8517
20°	18741	8409	6123	8409
25°	19899	8278	6055	8278
30°	17056	8182	6087	8182
35°	11862	8046	6150	8046
40°	8934	7886	6131	7886
45°	7419	7648	6052	7648
50°	6646	7164	5998	7164
55°	6212	6641	5923	6641
60°	5828	6097	5862	6097
65°	5476	5555	5675	5555
70°	5136	4941	5404	4941
75°	4600	4325	4957	4325
80°	4023	3552	4271	3552
85°	3149	2581	2865	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	1.4
10°-20°	252.2	4.5
20°-30°	423.2	7.5
30°-40°	479.2	8.5
40°-50°	429.7	7.6
50°-60°	346.8	6.1
60°-70°	241.7	4.3
70°-80°	127.0	2.2
80°-90°	34.0	0.6
90°-100°	38.6	0.7
100°-110°	184.1	3.3
110°-120°	442.3	7.8
120°-130°	563.2	10.0
130°-140°	601.8	10.6
140°-150°	562.7	10.0
150°-160°	453.9	8.0
160°-170°	293.0	5.2
170°-180°	101.0	1.8
0°-30°	754.0	13.3
0°-40°	1233.2	21.8
0°-60°	2009.7	35.6
0°-90°	2412.4	42.7
90°-120°	665.1	11.8
90°-150°	2392.8	42.3
90°-180°	3241.0	57.3
0°-180°	5653.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	948	799	708	799	948	98
15°	1412	764	577	764	1412	408
25°	1676	697	510	697	1676	735
35°	903	612	468	612	903	586
45°	487	502	398	502	487	386
55°	331	354	316	354	331	297
65°	215	218	223	218	215	214
75°	111	104	119	104	111	118
85°	26	21	23	21	26	31
90°	24	1	24	1	24	12
95°	30	48	30	48	30	25
105°	35	235	35	235	35	79
115°	464	441	464	441	464	429
125°	635	622	635	622	635	567
135°	782	774	782	774	782	603
145°	902	894	902	894	902	563
155°	983	984	983	984	983	453
165°	1036	1038	1036	1038	1036	292
175°	1059	1063	1059	1063	1059	101
180°	1063	1063	1063	1063	1063	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	847.2	846.6	845.1	846.3	843.7	840.4	840.1	837.0	828.0	827.4	825.0
5°	948.4	945.2	944.9	944.5	939.1	931.7	917.8	916.7	898.1	888.8	877.6
7.5°	1079.4	1081.1	1075.4	1070.5	1053.9	1043.0	1028.0	1009.0	986.1	963.0	947.6
10°	1173.5	1186.2	1170.3	1159.5	1149.5	1130.5	1108.5	1081.1	1053.6	1021.5	997.1
12.5°	1274.3	1280.6	1277.5	1267.2	1251.6	1222.7	1183.7	1153.5	1128.1	1074.7	1053.1
15°	1411.7	1435.3	1420.3	1385.4	1386.2	1358.8	1307.7	1251.6	1221.8	1175.0	1111.2
17.5°	1558.1	1561.0	1554.6	1525.6	1506.2	1468.5	1421.4	1367.7	1307.3	1250.7	1183.0
20°	1636.1	1633.8	1620.2	1605.1	1571.9	1542.5	1491.0	1431.1	1353.7	1298.0	1224.2
22.5°	1679.4	1675.5	1669.1	1656.5	1628.8	1597.2	1551.1	1485.5	1411.9	1335.1	1249.8
25°	1675.5	1680.5	1681.3	1677.8	1668.2	1649.2	1612.9	1560.6	1487.1	1388.6	1299.6
27.5°	1523.9	1531.0	1551.7	1570.0	1590.5	1611.3	1608.6	1582.7	1528.3	1443.1	1334.3
30°	1372.3	1356.8	1395.1	1443.4	1476.3	1534.3	1566.8	1568.7	1538.2	1465.1	1359.1
32.5°	1161.8	1178.9	1195.8	1255.3	1327.2	1392.3	1456.9	1509.0	1515.0	1466.3	1373.6
35°	902.7	924.0	954.9	985.9	1063.3	1129.7	1243.4	1342.5	1421.4	1431.8	1374.9
37.5°	727.4	738.0	757.5	788.5	839.1	918.1	1006.0	1131.1	1245.5	1330.5	1334.2
40°	635.8	638.9	661.0	684.6	725.6	790.5	869.9	980.5	1117.4	1236.2	1285.7
42.5°	567.1	574.0	583.3	606.0	638.6	687.5	761.2	852.7	978.2	1114.8	1211.6
45°	487.4	495.0	500.9	515.9	539.2	572.0	623.5	707.0	802.5	943.7	1074.1
47.5°	434.5	435.2	439.5	450.9	466.7	491.4	527.8	581.4	669.1	783.6	917.5
50°	396.9	403.0	404.6	413.4	425.9	444.0	474.2	519.8	591.8	692.4	815.4
52.5°	370.2	372.0	376.4	382.8	393.6	407.8	433.9	469.7	526.1	611.9	725.0
55°	331.0	331.0	335.4	340.3	346.6	359.3	376.7	403.0	446.0	512.5	606.1
57.5°	294.9	296.8	299.8	301.3	306.6	315.1	329.6	349.6	381.6	432.8	507.3
60°	270.7	274.2	273.9	276.9	281.6	288.1	300.5	316.8	345.4	386.4	449.1
62.5°	249.7	249.4	249.4	253.1	257.7	264.0	272.1	286.1	310.4	346.8	400.1
65°	215.0	214.3	217.0	219.3	220.9	225.5	231.7	244.1	260.3	287.4	328.7
67.5°	184.3	182.0	183.5	184.3	186.9	190.6	196.3	204.0	216.9	238.6	269.8
70°	163.2	161.3	160.9	161.7	164.0	166.7	171.0	178.3	190.3	207.7	230.6
72.5°	141.6	140.3	140.2	141.9	143.0	144.7	147.7	154.5	164.0	177.0	198.3
75°	110.6	110.6	110.6	111.0	112.2	113.7	116.0	119.5	126.8	136.1	150.5
77.5°	82.9	82.8	82.4	82.3	84.0	84.7	85.2	88.5	92.6	98.9	109.3
80°	64.9	63.0	63.8	64.9	65.7	66.1	67.3	68.1	71.6	75.0	82.4
82.5°	48.3	46.7	46.8	48.6	48.8	49.1	50.3	51.4	52.7	55.8	59.8
85°	25.5	25.5	26.0	26.0	26.3	26.0	27.1	27.5	27.5	29.4	31.7
87.5°	14.0	13.3	13.5	13.8	13.4	13.6	13.8	13.9	14.1	14.3	14.1
90°	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4	19.7	19.0	16.7
92.5°	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4	21.3	20.2	18.5
95°	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0	25.8	24.4	22.5
97.5°	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3	26.9	25.4	38.1
100°	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9	27.5	26.1	53.4
102.5°	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2	47.6	51.9	81.8
105°	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8	141.9	172.9	188.6
107.5°	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4	294.2	316.9	314.4
110°	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5	350.3	356.1	354.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1	396.0	395.9	393.9
115°	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7	454.9	453.2	451.6
117.5°	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6	510.2	508.8	508.0
120°	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5	546.1	544.7	544.2
122.5°	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7	581.8	580.8	580.1
125°	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3	632.0	631.6	630.9
127.5°	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0	681.5	680.9	680.0
130°	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0	711.2	710.5	709.8
132.5°	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3	739.7	739.0	738.4
135°	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5	782.9	782.4	781.7
137.5°	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8	821.0	820.1	819.7
140°	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2	845.5	844.8	844.2
142.5°	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3	868.7	868.2	867.6
145°	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5	901.2	900.8	900.5
147.5°	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4	930.1	929.7	929.4
150°	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1	947.8	947.5	947.1
152.5°	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8	963.2	962.6	962.4
155°	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5	984.6	983.7	983.5
157.5°	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3	1003.3	1002.2	1002.4
160°	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0	1014.0	1012.9	1013.1
162.5°	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8	1023.6	1022.4	1022.6
165°	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8	1036.4	1035.0	1035.2
167.5°	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1	1045.1
170°	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9	1050.9
172.5°	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4	1056.0	1054.6	1054.5
175°	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0	1060.8	1059.6	1059.3
177.5°	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7	1062.6	1061.4	1061.3
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	823.0	820.6	818.1	813.7	810.0	804.8	803.2	801.4	795.9	790.8	787.2
5°	873.3	864.0	850.5	838.1	828.1	814.6	806.8	798.7	787.1	776.7	768.1
7.5°	925.9	907.7	886.7	863.9	842.7	822.2	805.8	791.1	774.9	759.4	747.5
10°	967.8	941.4	912.0	880.3	853.2	826.9	804.9	785.6	764.7	746.5	731.3
12.5°	1015.3	976.3	935.8	897.3	865.3	828.8	802.1	777.5	753.9	732.0	715.0
15°	1071.8	1022.3	974.3	921.3	872.5	826.9	795.2	764.3	736.8	714.4	692.7
17.5°	1123.1	1067.0	1003.8	939.4	880.6	826.5	782.0	747.1	712.8	685.3	663.7
20°	1152.2	1088.3	1016.8	949.9	884.9	824.6	775.9	734.1	697.0	667.9	643.6
22.5°	1177.3	1102.6	1028.5	957.0	884.6	819.6	764.5	721.4	681.2	652.8	626.9
25°	1203.3	1113.9	1039.7	955.7	874.8	807.6	745.7	697.0	656.7	623.5	596.8
27.5°	1225.6	1113.2	1025.0	934.7	859.6	792.1	726.1	673.8	631.1	594.9	567.8
30°	1240.4	1114.7	1009.9	920.5	844.8	775.1	710.8	658.3	613.4	576.6	551.2
32.5°	1249.7	1113.8	995.9	900.7	821.2	759.6	694.5	640.1	593.9	557.8	533.2
35°	1255.1	1106.9	972.0	859.8	783.3	723.3	668.7	612.3	563.9	530.3	502.4
37.5°	1244.3	1092.7	944.1	820.3	736.5	677.5	631.6	583.5	537.2	500.2	476.2
40°	1227.2	1083.4	922.4	792.5	704.3	647.4	608.4	561.2	515.5	480.4	458.0
42.5°	1194.8	1064.5	898.7	761.5	670.9	614.0	578.0	538.7	495.4	462.4	440.0
45°	1115.5	1023.4	862.9	715.2	621.6	562.8	531.1	502.4	463.3	431.2	411.9
47.5°	1005.4	961.6	811.2	666.2	570.1	513.5	480.5	457.5	428.9	403.0	384.5
50°	929.1	910.9	776.3	632.8	535.6	480.4	448.7	427.8	407.3	381.3	364.4
52.5°	840.8	852.0	735.4	598.1	500.7	446.4	416.5	399.9	381.3	360.0	345.2
55°	716.7	757.3	664.9	540.0	448.7	396.9	368.6	353.9	343.1	327.2	314.5
57.5°	600.5	652.1	588.5	480.0	397.5	352.8	325.8	309.7	302.8	294.5	284.5
60°	531.4	582.5	534.1	439.8	363.1	320.6	296.7	283.2	276.2	270.3	261.9
62.5°	469.9	521.5	480.9	398.9	329.4	290.0	269.1	255.9	250.4	247.4	240.1
65°	385.3	429.7	402.6	335.4	281.1	246.4	227.4	218.1	213.1	212.0	207.3
67.5°	313.6	347.4	327.7	278.1	235.5	205.4	189.3	181.5	177.6	177.2	173.7
70°	266.5	298.2	283.2	238.2	201.5	177.9	164.0	157.0	154.7	154.3	152.4
72.5°	229.9	252.1	240.1	202.7	174.3	152.9	142.6	135.3	132.7	133.3	132.0
75°	170.2	186.8	179.9	153.9	131.1	117.1	108.7	104.0	101.7	102.9	101.3
77.5°	122.5	133.0	126.7	108.8	94.7	84.6	78.4	75.5	73.4	73.3	72.6
80°	92.4	98.7	95.1	84.3	72.7	64.2	59.2	57.3	56.0	55.7	55.3
82.5°	65.8	71.1	67.0	59.6	51.7	46.6	43.7	41.2	40.3	40.5	40.2
85°	33.2	35.2	33.6	29.0	26.0	23.6	22.0	20.9	20.1	20.5	19.7
87.5°	14.3	14.1	12.8	11.1	10.2	8.9	8.6	7.6	7.3	7.7	7.7
90°	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6	14.2	13.7	13.2
95°	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2	41.0	33.7	26.6
97.5°	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7	93.6	90.4	87.2
100°	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4	136.9	140.5	143.9
102.5°	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1	177.6	180.2	182.7
105°	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3	237.2	239.1	241.1
107.5°	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7	300.3	301.8	303.4
110°	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0	342.4	343.9	345.3



TEST NUMBER: P331928-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5	382.7	384.1	385.3
115°	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3	442.4	443.4	444.5
117.5°	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3	500.6	501.9	503.2
120°	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3	536.8	538.5	540.0
122.5°	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9	573.2	574.5	575.8
125°	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2	623.5	624.9	626.3
127.5°	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8	672.2	673.6	675.0
130°	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0	702.5	703.9	705.3
132.5°	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1	731.5	733.0	734.4
135°	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5	775.6	776.6	777.7
137.5°	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4	813.7	815.1	816.4
140°	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7	838.7	839.8	840.8
142.5°	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0	862.1	863.1	864.2
145°	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7	894.9	896.2	897.4
147.5°	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5	925.3	926.1	927.0
150°	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4	944.0	944.5	945.0
152.5°	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5	960.8	961.0	961.3
155°	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5	984.2	983.8	983.5
157.5°	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1	1003.1	1003.1	1003.0
160°	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5	1014.3	1014.2	1014.0
162.5°	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2	1024.8	1024.3	1023.9
165°	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2	1037.6	1037.1	1036.6
167.5°	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3	1047.6	1046.9	1046.2
170°	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0	1053.3	1052.6	1051.9
172.5°	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7	1056.9	1056.1	1055.2
175°	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7	1061.8	1061.0	1060.1
177.5°	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9	1063.3	1062.6	1061.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	785.0	782.8	779.7	775.1	771.3	765.5	765.5	766.4	766.4	766.1	765.5
5°	761.1	755.4	748.4	740.3	731.7	723.3	721.8	718.6	716.3	714.8	712.9
7.5°	736.0	725.8	715.6	704.3	693.9	685.3	679.3	674.4	671.2	667.8	665.3
10°	719.0	706.2	694.3	682.3	669.1	658.6	652.1	647.4	644.0	640.9	639.3
12.5°	698.9	684.3	671.1	659.6	645.3	634.5	628.2	626.1	622.0	615.5	612.1
15°	669.5	656.0	640.2	622.7	615.7	602.6	595.2	591.8	589.5	584.4	582.9
17.5°	644.4	626.6	608.8	595.8	582.9	572.3	568.2	563.8	560.8	556.6	555.4
20°	624.3	608.4	592.2	578.2	564.7	553.1	549.6	546.5	543.4	541.5	540.0
22.5°	603.8	587.9	574.5	561.5	547.0	539.5	535.6	532.3	530.1	528.8	527.3
25°	575.1	561.2	546.1	534.5	522.9	517.9	515.5	513.6	512.1	510.2	509.8
27.5°	549.5	534.3	522.1	511.2	502.9	498.7	496.4	495.5	495.8	496.6	497.0
30°	530.3	516.3	506.2	497.0	489.3	485.4	485.0	485.0	486.6	487.0	487.8
32.5°	512.6	501.2	491.1	482.1	476.3	473.6	475.1	475.1	476.4	477.4	478.8
35°	487.0	476.9	469.2	461.4	456.4	457.6	458.3	459.1	461.0	463.3	464.9
37.5°	462.4	453.7	445.7	439.6	437.3	439.4	441.2	442.8	445.1	446.9	448.4
40°	444.7	438.2	430.5	425.1	425.9	427.0	428.6	430.5	432.4	433.5	435.2
42.5°	428.4	421.5	415.7	411.1	412.2	413.7	414.7	415.7	417.9	420.0	420.9
45°	403.4	398.0	392.5	389.9	390.6	391.4	392.2	393.3	395.3	396.9	397.2
47.5°	375.4	371.5	367.9	365.3	366.5	366.2	367.2	369.7	370.3	371.2	373.3
50°	357.4	353.9	349.6	348.9	348.9	348.9	349.2	352.3	352.3	353.9	355.5
52.5°	337.6	335.4	332.6	331.2	330.6	330.6	332.2	333.8	334.4	336.6	338.1
55°	308.2	305.9	303.7	302.5	301.6	302.5	305.6	306.3	308.2	309.4	310.5
57.5°	277.7	275.9	274.1	273.5	273.3	274.3	276.0	278.3	278.8	282.4	284.1
60°	257.6	254.9	253.4	253.4	252.6	256.0	255.3	259.1	259.9	262.3	265.0
62.5°	236.8	233.2	232.6	232.6	233.7	234.7	235.8	237.5	239.5	242.5	244.5
65°	203.5	201.5	204.2	203.8	203.1	205.4	205.4	207.3	209.6	212.4	216.6
67.5°	171.8	170.8	171.1	171.1	172.2	173.5	174.6	176.3	179.0	182.0	184.7
70°	150.5	151.6	149.7	151.3	152.4	152.8	153.5	155.8	159.0	160.9	164.0
72.5°	129.8	129.7	129.9	130.5	131.7	132.4	133.1	135.7	139.2	140.8	143.3
75°	99.8	99.4	100.6	100.6	102.5	103.3	104.0	105.2	108.3	110.6	112.6
77.5°	72.9	73.3	73.1	74.4	73.9	74.0	76.4	77.6	77.9	82.5	83.5
80°	54.9	55.7	56.0	56.5	56.9	56.0	58.8	60.0	60.0	62.6	64.6
82.5°	39.5	39.9	40.9	41.3	41.4	42.1	42.4	43.2	44.1	45.3	47.9
85°	19.7	20.9	21.3	20.9	21.3	20.5	21.6	22.0	22.4	22.4	22.4
87.5°	7.8	8.5	8.6	9.4	9.5	10.3	10.4	10.0	10.1	11.1	10.0
90°	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4	21.0	21.7	22.3
92.5°	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4	23.5	24.7	25.3
95°	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0	28.2	29.4	30.0
97.5°	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3	29.6	31.0	31.8
100°	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9	30.3	31.7	32.4
102.5°	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2	38.9	34.5	32.5
105°	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8	79.8	48.7	33.3
107.5°	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4	248.6	225.8	202.7
110°	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5	338.7	333.0	317.5



TEST NUMBER: P331928-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1	396.2	396.3	393.6
115°	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7	458.5	460.2	461.4
117.5°	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6	513.0	514.3	515.1
120°	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5	549.0	550.4	551.1
122.5°	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7	583.7	584.7	585.2
125°	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3	632.7	633.0	633.4
127.5°	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0	682.6	683.1	683.2
130°	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0	712.7	713.4	713.6
132.5°	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3	741.0	741.7	741.8
135°	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5	784.0	784.5	784.5
137.5°	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8	822.6	823.5	823.7
140°	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2	846.9	847.6	847.8
142.5°	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3	869.8	870.4	870.4
145°	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5	901.9	902.2	902.4
147.5°	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4	930.8	931.1	930.9
150°	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1	948.5	948.8	948.8
152.5°	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8	964.4	965.1	965.0
155°	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5	986.3	987.2	987.1
157.5°	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3	1005.3	1006.4	1006.2
160°	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0	1016.1	1017.1	1017.0
162.5°	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8	1026.0	1027.1	1027.2
165°	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8	1039.3	1040.7	1040.8
167.5°	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8
170°	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4
172.5°	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4	1058.8	1060.3	1060.2
175°	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0	1063.2	1064.4	1064.3
177.5°	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7	1064.8	1065.9	1065.8
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P331928-840

CATALOG NUMBER: S123DIP-S560D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	763.4	763.1	765.2	763.7	765.2	763.1	763.4	765.5	766.1	766.4	766.4
5°	710.5	711.7	707.8	707.8	707.8	711.7	710.5	712.9	714.8	716.3	718.6
7.5°	663.5	661.8	662.0	659.8	662.0	661.8	663.5	665.3	667.8	671.2	674.4
10°	634.7	632.4	631.6	632.0	631.6	632.4	634.7	639.3	640.9	644.0	647.4
12.5°	610.9	610.4	605.3	605.4	605.3	610.4	610.9	612.1	615.5	622.0	626.1
15°	582.9	575.5	574.7	577.0	574.7	575.5	582.9	582.9	584.4	589.5	591.8
17.5°	554.8	550.9	551.2	550.0	551.2	550.9	554.8	555.4	556.6	560.8	563.8
20°	540.0	537.7	537.2	534.5	537.2	537.7	540.0	540.0	541.5	543.4	546.5
22.5°	526.3	525.5	525.7	522.8	525.7	525.5	526.3	527.3	528.8	530.1	532.3
25°	509.4	511.3	509.8	509.8	509.8	511.3	509.4	509.8	510.2	512.1	513.6
27.5°	498.0	497.9	497.1	497.1	497.1	497.9	498.0	497.0	496.6	495.8	495.5
30°	489.3	488.9	489.7	489.7	489.7	488.9	489.3	487.8	487.0	486.6	485.0
32.5°	480.6	481.1	481.3	481.6	481.3	481.1	480.6	478.8	477.4	476.4	475.1
35°	467.3	467.6	468.8	468.0	468.8	467.6	467.3	464.9	463.3	461.0	459.1
37.5°	449.1	450.9	450.5	451.1	450.5	450.9	449.1	448.4	446.9	445.1	442.8
40°	435.6	436.7	436.3	436.3	436.3	436.7	435.6	435.2	433.5	432.4	430.5
42.5°	421.6	422.4	421.4	420.8	421.4	422.4	421.6	420.9	420.0	417.9	415.7
45°	398.8	398.0	399.2	397.6	399.2	398.0	398.8	397.2	396.9	395.3	393.3
47.5°	373.2	374.1	374.4	375.5	374.4	374.1	373.2	373.3	371.2	370.3	369.7
50°	356.2	358.5	358.5	358.2	358.5	358.5	356.2	355.5	353.9	352.3	352.3
52.5°	339.5	340.6	342.1	342.0	342.1	340.6	339.5	338.1	336.6	334.4	333.8
55°	313.7	314.5	315.2	315.6	315.2	314.5	313.7	310.5	309.4	308.2	306.3
57.5°	286.9	286.6	288.4	289.0	288.4	286.6	286.9	284.1	282.4	278.8	278.3
60°	268.0	268.0	271.1	272.3	271.1	268.0	268.0	265.0	262.3	259.9	259.1
62.5°	247.9	249.1	252.3	250.6	252.3	249.1	247.9	244.5	242.5	239.5	237.5
65°	218.5	221.7	221.3	222.8	221.3	221.7	218.5	216.6	212.4	209.6	207.3
67.5°	187.8	189.8	192.6	192.8	192.6	189.8	187.8	184.7	182.0	179.0	176.3
70°	167.1	169.1	170.6	171.7	170.6	169.1	167.1	164.0	160.9	159.0	155.8
72.5°	146.9	147.9	151.7	150.1	151.7	147.9	146.9	143.3	140.8	139.2	135.7
75°	115.2	118.0	120.3	119.2	120.3	118.0	115.2	112.6	110.6	108.3	105.2
77.5°	85.2	88.0	89.1	88.1	89.1	88.0	85.2	83.5	82.5	77.9	77.6
80°	67.3	67.0	69.3	68.9	69.3	67.0	67.3	64.6	62.6	60.0	60.0
82.5°	49.4	49.0	50.1	50.3	50.1	49.0	49.4	47.9	45.3	44.1	43.2
85°	23.9	25.1	23.6	23.2	23.6	25.1	23.9	22.4	22.4	22.4	22.0
87.5°	10.1	10.2	9.9	9.7	9.9	10.2	10.1	10.0	11.1	10.1	10.0
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4
92.5°	25.5	25.8	26.0	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0
97.5°	32.0	32.2	32.3	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3
100°	32.6	32.8	33.0	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9
102.5°	32.8	33.1	33.4	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2
105°	33.7	34.0	34.4	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8
107.5°	179.4	155.9	132.5	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4
110°	292.4	267.3	242.2	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5



TEST NUMBER: P331928-840

CATALOG NUMBER: S123DIP-S560D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	388.4	383.0	377.8	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1
115°	462.1	462.8	463.5	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7
117.5°	515.3	515.4	515.5	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6
120°	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5
122.5°	585.4	585.5	585.7	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7
125°	633.7	634.1	634.4	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3
127.5°	682.9	682.6	682.2	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0
130°	713.2	712.9	712.5	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0
132.5°	741.4	740.9	740.4	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3
135°	784.0	783.5	782.9	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5
137.5°	823.4	823.0	822.7	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8
140°	847.4	847.1	846.7	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2
142.5°	869.9	869.4	869.0	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3
145°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5
147.5°	930.1	929.3	928.5	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4
150°	948.2	947.7	947.2	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1
152.5°	964.2	963.4	962.6	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8
155°	986.1	985.0	984.0	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5
157.5°	1004.9	1003.5	1002.2	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3
160°	1015.8	1014.6	1013.4	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0
162.5°	1026.1	1025.0	1024.0	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8
165°	1039.6	1038.2	1037.0	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8
167.5°	1049.4	1047.9	1046.5	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9
170°	1055.0	1053.6	1052.3	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6
172.5°	1058.6	1057.1	1055.5	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4
175°	1063.0	1061.6	1060.2	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0
177.5°	1064.4	1063.0	1061.6	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P331928-840

CATALOG NUMBER: S123DIP-S560D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	765.5	765.5	771.3	775.1	779.7	782.8	785.0	787.2	790.8	795.9	801.4
5°	721.8	723.3	731.7	740.3	748.4	755.4	761.1	768.1	776.7	787.1	798.7
7.5°	679.3	685.3	693.9	704.3	715.6	725.8	736.0	747.5	759.4	774.9	791.1
10°	652.1	658.6	669.1	682.3	694.3	706.2	719.0	731.3	746.5	764.7	785.6
12.5°	628.2	634.5	645.3	659.6	671.1	684.3	698.9	715.0	732.0	753.9	777.5
15°	595.2	602.6	615.7	622.7	640.2	656.0	669.5	692.7	714.4	736.8	764.3
17.5°	568.2	572.3	582.9	595.8	608.8	626.6	644.4	663.7	685.3	712.8	747.1
20°	549.6	553.1	564.7	578.2	592.2	608.4	624.3	643.6	667.9	697.0	734.1
22.5°	535.6	539.5	547.0	561.5	574.5	587.9	603.8	626.9	652.8	681.2	721.4
25°	515.5	517.9	522.9	534.5	546.1	561.2	575.1	596.8	623.5	656.7	697.0
27.5°	496.4	498.7	502.9	511.2	522.1	534.3	549.5	567.8	594.9	631.1	673.8
30°	485.0	485.4	489.3	497.0	506.2	516.3	530.3	551.2	576.6	613.4	658.3
32.5°	475.1	473.6	476.3	482.1	491.1	501.2	512.6	533.2	557.8	593.9	640.1
35°	458.3	457.6	456.4	461.4	469.2	476.9	487.0	502.4	530.3	563.9	612.3
37.5°	441.2	439.4	437.3	439.6	445.7	453.7	462.4	476.2	500.2	537.2	583.5
40°	428.6	427.0	425.9	425.1	430.5	438.2	444.7	458.0	480.4	515.5	561.2
42.5°	414.7	413.7	412.2	411.1	415.7	421.5	428.4	440.0	462.4	495.4	538.7
45°	392.2	391.4	390.6	389.9	392.5	398.0	403.4	411.9	431.2	463.3	502.4
47.5°	367.2	366.2	366.5	365.3	367.9	371.5	375.4	384.5	403.0	428.9	457.5
50°	349.2	348.9	348.9	348.9	349.6	353.9	357.4	364.4	381.3	407.3	427.8
52.5°	332.2	330.6	330.6	331.2	332.6	335.4	337.6	345.2	360.0	381.3	399.9
55°	305.6	302.5	301.6	302.5	303.7	305.9	308.2	314.5	327.2	343.1	353.9
57.5°	276.0	274.3	273.3	273.5	274.1	275.9	277.7	284.5	294.5	302.8	309.7
60°	255.3	256.0	252.6	253.4	253.4	254.9	257.6	261.9	270.3	276.2	283.2
62.5°	235.8	234.7	233.7	232.6	232.6	233.2	236.8	240.1	247.4	250.4	255.9
65°	205.4	205.4	203.1	203.8	204.2	201.5	203.5	207.3	212.0	213.1	218.1
67.5°	174.6	173.5	172.2	171.1	171.1	170.8	171.8	173.7	177.2	177.6	181.5
70°	153.5	152.8	152.4	151.3	149.7	151.6	150.5	152.4	154.3	154.7	157.0
72.5°	133.1	132.4	131.7	130.5	129.9	129.7	129.8	132.0	133.3	132.7	135.3
75°	104.0	103.3	102.5	100.6	100.6	99.4	99.8	101.3	102.9	101.7	104.0
77.5°	76.4	74.0	73.9	74.4	73.1	73.3	72.9	72.6	73.3	73.4	75.5
80°	58.8	56.0	56.9	56.5	56.0	55.7	54.9	55.3	55.7	56.0	57.3
82.5°	42.4	42.1	41.4	41.3	40.9	39.9	39.5	40.2	40.5	40.3	41.2
85°	21.6	20.5	21.3	20.9	21.3	20.9	19.7	19.7	20.5	20.1	20.9
87.5°	10.4	10.3	9.5	9.4	8.6	8.5	7.8	7.7	7.7	7.3	7.6
90°	19.7	19.0	16.7	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	21.3	20.2	18.5	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6
95°	25.8	24.4	22.5	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2
97.5°	26.9	25.4	38.1	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7
100°	27.5	26.1	53.4	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4
102.5°	47.6	51.9	81.8	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1
105°	141.9	172.9	188.6	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3
107.5°	294.2	316.9	314.4	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7
110°	350.3	356.1	354.2	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	396.0	395.9	393.9	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5
115°	454.9	453.2	451.6	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3
117.5°	510.2	508.8	508.0	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3
120°	546.1	544.7	544.2	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3
122.5°	581.8	580.8	580.1	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9
125°	632.0	631.6	630.9	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2
127.5°	681.5	680.9	680.0	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8
130°	711.2	710.5	709.8	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0
132.5°	739.7	739.0	738.4	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1
135°	782.9	782.4	781.7	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5
137.5°	821.0	820.1	819.7	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4
140°	845.5	844.8	844.2	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7
142.5°	868.7	868.2	867.6	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0
145°	901.2	900.8	900.5	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7
147.5°	930.1	929.7	929.4	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5
150°	947.8	947.5	947.1	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4
152.5°	963.2	962.6	962.4	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5
155°	984.6	983.7	983.5	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5
157.5°	1003.3	1002.2	1002.4	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1
160°	1014.0	1012.9	1013.1	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5
162.5°	1023.6	1022.4	1022.6	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2
165°	1036.4	1035.0	1035.2	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2
167.5°	1046.5	1045.1	1045.1	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3
170°	1052.3	1050.9	1050.9	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0
172.5°	1056.0	1054.6	1054.5	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7
175°	1060.8	1059.6	1059.3	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7
177.5°	1062.6	1061.4	1061.3	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P331928-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	803.2	804.8	810.0	813.7	818.1	820.6	823.0	825.0	827.4	828.0	837.0
5°	806.8	814.6	828.1	838.1	850.5	864.0	873.3	877.6	888.8	898.1	916.7
7.5°	805.8	822.2	842.7	863.9	886.7	907.7	925.9	947.6	963.0	986.1	1009.0
10°	804.9	826.9	853.2	880.3	912.0	941.4	967.8	997.1	1021.5	1053.6	1081.1
12.5°	802.1	828.8	865.3	897.3	935.8	976.3	1015.3	1053.1	1074.7	1128.1	1153.5
15°	795.2	826.9	872.5	921.3	974.3	1022.3	1071.8	1111.2	1175.0	1221.8	1251.6
17.5°	782.0	826.5	880.6	939.4	1003.8	1067.0	1123.1	1183.0	1250.7	1307.3	1367.7
20°	775.9	824.6	884.9	949.9	1016.8	1088.3	1152.2	1224.2	1298.0	1353.7	1431.1
22.5°	764.5	819.6	884.6	957.0	1028.5	1102.6	1177.3	1249.8	1335.1	1411.9	1485.5
25°	745.7	807.6	874.8	955.7	1039.7	1113.9	1203.3	1299.6	1388.6	1487.1	1560.6
27.5°	726.1	792.1	859.6	934.7	1025.0	1113.2	1225.6	1334.3	1443.1	1528.3	1582.7
30°	710.8	775.1	844.8	920.5	1009.9	1114.7	1240.4	1359.1	1465.1	1538.2	1568.7
32.5°	694.5	759.6	821.2	900.7	995.9	1113.8	1249.7	1373.6	1466.3	1515.0	1509.0
35°	668.7	723.3	783.3	859.8	972.0	1106.9	1255.1	1374.9	1431.8	1421.4	1342.5
37.5°	631.6	677.5	736.5	820.3	944.1	1092.7	1244.3	1334.2	1330.5	1245.5	1131.1
40°	608.4	647.4	704.3	792.5	922.4	1083.4	1227.2	1285.7	1236.2	1117.4	980.5
42.5°	578.0	614.0	670.9	761.5	898.7	1064.5	1194.8	1211.6	1114.8	978.2	852.7
45°	531.1	562.8	621.6	715.2	862.9	1023.4	1115.5	1074.1	943.7	802.5	707.0
47.5°	480.5	513.5	570.1	666.2	811.2	961.6	1005.4	917.5	783.6	669.1	581.4
50°	448.7	480.4	535.6	632.8	776.3	910.9	929.1	815.4	692.4	591.8	519.8
52.5°	416.5	446.4	500.7	598.1	735.4	852.0	840.8	725.0	611.9	526.1	469.7
55°	368.6	396.9	448.7	540.0	664.9	757.3	716.7	606.1	512.5	446.0	403.0
57.5°	325.8	352.8	397.5	480.0	588.5	652.1	600.5	507.3	432.8	381.6	349.6
60°	296.7	320.6	363.1	439.8	534.1	582.5	531.4	449.1	386.4	345.4	316.8
62.5°	269.1	290.0	329.4	398.9	480.9	521.5	469.9	400.1	346.8	310.4	286.1
65°	227.4	246.4	281.1	335.4	402.6	429.7	385.3	328.7	287.4	260.3	244.1
67.5°	189.3	205.4	235.5	278.1	327.7	347.4	313.6	269.8	238.6	216.9	204.0
70°	164.0	177.9	201.5	238.2	283.2	298.2	266.5	230.6	207.7	190.3	178.3
72.5°	142.6	152.9	174.3	202.7	240.1	252.1	229.9	198.3	177.0	164.0	154.5
75°	108.7	117.1	131.1	153.9	179.9	186.8	170.2	150.5	136.1	126.8	119.5
77.5°	78.4	84.6	94.7	108.8	126.7	133.0	122.5	109.3	98.9	92.6	88.5
80°	59.2	64.2	72.7	84.3	95.1	98.7	92.4	82.4	75.0	71.6	68.1
82.5°	43.7	46.6	51.7	59.6	67.0	71.1	65.8	59.8	55.8	52.7	51.4
85°	22.0	23.6	26.0	29.0	33.6	35.2	33.2	31.7	29.4	27.5	27.5
87.5°	8.6	8.9	10.2	11.1	12.8	14.1	14.3	14.1	14.3	14.1	13.9
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4
92.5°	14.2	13.7	13.2	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4
95°	41.0	33.7	26.6	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0
97.5°	93.6	90.4	87.2	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3
100°	136.9	140.5	143.9	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9
102.5°	177.6	180.2	182.7	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2
105°	237.2	239.1	241.1	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8
107.5°	300.3	301.8	303.4	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4
110°	342.4	343.9	345.3	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.7	384.1	385.3	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1
115°	442.4	443.4	444.5	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7
117.5°	500.6	501.9	503.2	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6
120°	536.8	538.5	540.0	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5
122.5°	573.2	574.5	575.8	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7
125°	623.5	624.9	626.3	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3
127.5°	672.2	673.6	675.0	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0
130°	702.5	703.9	705.3	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0
132.5°	731.5	733.0	734.4	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3
135°	775.6	776.6	777.7	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5
137.5°	813.7	815.1	816.4	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8
140°	838.7	839.8	840.8	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2
142.5°	862.1	863.1	864.2	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3
145°	894.9	896.2	897.4	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5
147.5°	925.3	926.1	927.0	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4
150°	944.0	944.5	945.0	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1
152.5°	960.8	961.0	961.3	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8
155°	984.2	983.8	983.5	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5
157.5°	1003.1	1003.1	1003.0	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3
160°	1014.3	1014.2	1014.0	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0
162.5°	1024.8	1024.3	1023.9	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8
165°	1037.6	1037.1	1036.6	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8
167.5°	1047.6	1046.9	1046.2	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9
170°	1053.3	1052.6	1051.9	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6
172.5°	1056.9	1056.1	1055.2	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4
175°	1061.8	1061.0	1060.1	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0
177.5°	1063.3	1062.6	1061.9	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	840.1	840.4	843.7	846.3	845.1	846.6	847.2
5°	917.8	931.7	939.1	944.5	944.9	945.2	948.4
7.5°	1028.0	1043.0	1053.9	1070.5	1075.4	1081.1	1079.4
10°	1108.5	1130.5	1149.5	1159.5	1170.3	1186.2	1173.5
12.5°	1183.7	1222.7	1251.6	1267.2	1277.5	1280.6	1274.3
15°	1307.7	1358.8	1386.2	1385.4	1420.3	1435.3	1411.7
17.5°	1421.4	1468.5	1506.2	1525.6	1554.6	1561.0	1558.1
20°	1491.0	1542.5	1571.9	1605.1	1620.2	1633.8	1636.1
22.5°	1551.1	1597.2	1628.8	1656.5	1669.1	1675.5	1679.4
25°	1612.9	1649.2	1668.2	1677.8	1681.3	1680.5	1675.5
27.5°	1608.6	1611.3	1590.5	1570.0	1551.7	1531.0	1523.9
30°	1566.8	1534.3	1476.3	1443.4	1395.1	1356.8	1372.3
32.5°	1456.9	1392.3	1327.2	1255.3	1195.8	1178.9	1161.8
35°	1243.4	1129.7	1063.3	985.9	954.9	924.0	902.7
37.5°	1006.0	918.1	839.1	788.5	757.5	738.0	727.4
40°	869.9	790.5	725.6	684.6	661.0	638.9	635.8
42.5°	761.2	687.5	638.6	606.0	583.3	574.0	567.1
45°	623.5	572.0	539.2	515.9	500.9	495.0	487.4
47.5°	527.8	491.4	466.7	450.9	439.5	435.2	434.5
50°	474.2	444.0	425.9	413.4	404.6	403.0	396.9
52.5°	433.9	407.8	393.6	382.8	376.4	372.0	370.2
55°	376.7	359.3	346.6	340.3	335.4	331.0	331.0
57.5°	329.6	315.1	306.6	301.3	299.8	296.8	294.9
60°	300.5	288.1	281.6	276.9	273.9	274.2	270.7
62.5°	272.1	264.0	257.7	253.1	249.4	249.4	249.7
65°	231.7	225.5	220.9	219.3	217.0	214.3	215.0
67.5°	196.3	190.6	186.9	184.3	183.5	182.0	184.3
70°	171.0	166.7	164.0	161.7	160.9	161.3	163.2
72.5°	147.7	144.7	143.0	141.9	140.2	140.3	141.6
75°	116.0	113.7	112.2	111.0	110.6	110.6	110.6
77.5°	85.2	84.7	84.0	82.3	82.4	82.8	82.9
80°	67.3	66.1	65.7	64.9	63.8	63.0	64.9
82.5°	50.3	49.1	48.8	48.6	46.8	46.7	48.3
85°	27.1	26.0	26.3	26.0	26.0	25.5	25.5
87.5°	13.8	13.6	13.4	13.8	13.5	13.3	14.0
90°	21.0	21.7	22.3	22.6	23.0	23.3	23.7
92.5°	23.5	24.7	25.3	25.5	25.8	26.0	26.3
95°	28.2	29.4	30.0	30.0	30.0	30.0	30.0
97.5°	29.6	31.0	31.8	32.0	32.2	32.3	32.5
100°	30.3	31.7	32.4	32.6	32.8	33.0	33.1
102.5°	38.9	34.5	32.5	32.8	33.1	33.4	33.8
105°	79.8	48.7	33.3	33.7	34.0	34.4	34.7
107.5°	248.6	225.8	202.7	179.4	155.9	132.5	109.1
110°	338.7	333.0	317.5	292.4	267.3	242.2	217.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.2	396.3	393.6	388.4	383.0	377.8	372.5
115°	458.5	460.2	461.4	462.1	462.8	463.5	464.2
117.5°	513.0	514.3	515.1	515.3	515.4	515.5	515.7
120°	549.0	550.4	551.1	551.1	551.1	551.1	551.1
122.5°	583.7	584.7	585.2	585.4	585.5	585.7	585.8
125°	632.7	633.0	633.4	633.7	634.1	634.4	634.8
127.5°	682.6	683.1	683.2	682.9	682.6	682.2	681.9
130°	712.7	713.4	713.6	713.2	712.9	712.5	712.2
132.5°	741.0	741.7	741.8	741.4	740.9	740.4	739.9
135°	784.0	784.5	784.5	784.0	783.5	782.9	782.4
137.5°	822.6	823.5	823.7	823.4	823.0	822.7	822.3
140°	846.9	847.6	847.8	847.4	847.1	846.7	846.4
142.5°	869.8	870.4	870.4	869.9	869.4	869.0	868.5
145°	901.9	902.2	902.4	902.4	902.4	902.4	902.4
147.5°	930.8	931.1	930.9	930.1	929.3	928.5	927.7
150°	948.5	948.8	948.8	948.2	947.7	947.2	946.6
152.5°	964.4	965.1	965.0	964.2	963.4	962.6	961.8
155°	986.3	987.2	987.1	986.1	985.0	984.0	982.9
157.5°	1005.3	1006.4	1006.2	1004.9	1003.5	1002.2	1000.8
160°	1016.1	1017.1	1017.0	1015.8	1014.6	1013.4	1012.2
162.5°	1026.0	1027.1	1027.2	1026.1	1025.0	1024.0	1022.9
165°	1039.3	1040.7	1040.8	1039.6	1038.2	1037.0	1035.8
167.5°	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1
170°	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9
172.5°	1058.8	1060.3	1060.2	1058.6	1057.1	1055.5	1054.0
175°	1063.2	1064.4	1064.3	1063.0	1061.6	1060.2	1058.7
177.5°	1064.8	1065.9	1065.8	1064.4	1063.0	1061.6	1060.2
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7

(END OF REPORT)