

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: P331947-930

Luminaire Tested: **S123DIP-S560D1195U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331947-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S560D1195U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5289.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 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: Semi-Indirect

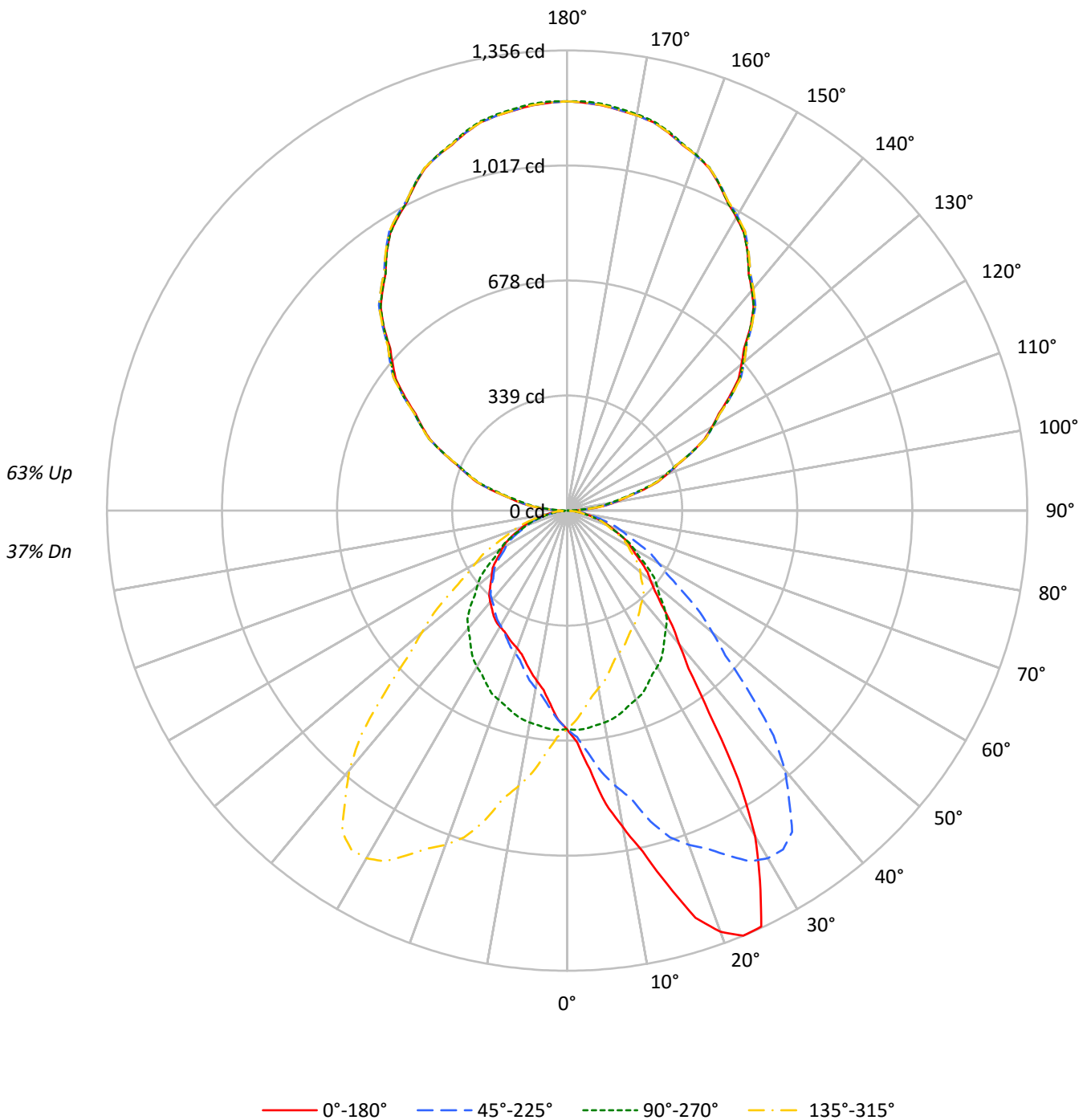
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	38	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	49	65	57	50	45	46	41	38	37	33	30	28	25	24	20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	1.2
10°-20°	203.6	3.8
20°-30°	341.7	6.5
30°-40°	386.9	7.3
40°-50°	346.9	6.6
50°-60°	280.0	5.3
60°-70°	195.1	3.7
70°-80°	102.5	1.9
80°-90°	28.6	0.5
90°-100°	78.6	1.5
100°-110°	235.1	4.4
110°-120°	399.9	7.6
120°-130°	526.0	9.9
130°-140°	591.2	11.2
140°-150°	581.2	11.0
150°-160°	489.3	9.2
160°-170°	325.7	6.2
170°-180°	114.0	2.2
0°-30°	608.7	11.5
0°-40°	995.6	18.8
0°-60°	1622.5	30.7
0°-90°	1948.8	36.8
90°-120°	713.6	13.5
90°-150°	2412.1	45.6
90°-180°	3341.0	63.2
0°-180°	5289.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	28	1	28	1	28	15
95°	74	56	74	56	74	76
105°	225	213	225	213	225	239
115°	404	403	404	403	404	400
125°	583	589	583	589	583	521
135°	764	764	764	764	764	587
145°	927	927	927	927	927	579
155°	1060	1062	1060	1062	1060	488
165°	1153	1157	1153	1157	1153	325
175°	1198	1203	1198	1203	1198	114
180°	1206	1206	1206	1206	1206	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	13.2	12.6	12.8	13.0	12.6	12.7	12.8	12.9	13.0	13.0	12.7
90°	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.5	23.6	22.7	20.0
92.5°	38.2	38.5	38.8	39.1	39.3	39.1	38.4	37.7	37.0	36.4	34.8
95°	73.9	73.9	73.9	73.9	73.9	73.5	72.6	71.7	70.9	70.1	68.4
97.5°	113.7	113.7	113.8	113.9	114.0	113.6	112.6	111.6	110.6	109.7	108.4
100°	144.0	143.6	143.2	142.8	142.3	141.8	141.1	140.5	139.9	139.3	138.2
102.5°	175.0	175.1	175.2	175.3	175.4	175.1	174.5	173.8	173.3	172.6	171.2
105°	225.4	225.0	224.6	224.2	223.8	223.6	223.6	223.6	223.6	223.6	221.7
107.5°	277.9	278.2	278.4	278.7	278.9	278.8	278.1	277.4	276.7	276.1	275.2
110°	313.6	314.0	314.4	314.8	315.2	315.0	314.2	313.3	312.5	311.7	311.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.5	351.6	351.6	351.7	351.8	351.3	350.3	349.3	348.3	347.2	347.2
115°	403.6	403.7	404.0	404.1	404.4	404.4	404.1	404.0	403.7	403.6	404.0
117.5°	456.4	457.0	457.5	458.2	458.8	459.1	459.1	459.2	459.2	459.3	459.8
120°	493.5	494.0	494.4	494.8	495.2	495.5	495.8	495.9	496.2	496.4	497.4
122.5°	529.1	529.7	530.4	530.9	531.5	532.1	532.6	533.2	533.7	534.3	534.8
125°	582.6	583.4	584.2	585.1	586.0	586.8	587.7	588.5	589.3	590.2	590.6
127.5°	635.9	636.7	637.7	638.7	639.7	640.7	642.0	643.1	644.3	645.5	646.0
130°	670.7	672.1	673.6	675.1	676.5	677.8	678.6	679.4	680.3	681.1	681.8
132.5°	707.0	708.2	709.3	710.5	711.6	712.7	713.7	714.7	715.7	716.7	717.1
135°	763.5	763.9	764.3	764.8	765.2	765.8	766.6	767.5	768.3	769.2	769.4
137.5°	813.3	814.2	815.0	815.7	816.5	817.3	818.2	819.1	820.0	820.9	820.4
140°	846.0	847.4	848.9	850.4	851.8	852.6	852.9	853.0	853.3	853.5	853.3
142.5°	879.3	880.4	881.5	882.6	883.8	884.5	884.7	884.9	885.1	885.3	884.9
145°	927.4	928.2	929.0	929.9	930.7	931.3	931.5	931.7	931.9	932.1	931.5
147.5°	970.2	971.4	972.7	974.0	975.3	975.9	975.9	975.9	975.9	975.9	975.3
150°	997.5	998.7	1000.0	1001.3	1002.6	1003.1	1003.1	1003.1	1003.1	1003.1	1002.7
152.5°	1024.0	1025.1	1026.2	1027.3	1028.4	1028.7	1028.4	1028.1	1027.8	1027.4	1027.2
155°	1060.0	1061.5	1063.0	1064.5	1065.9	1066.2	1065.4	1064.5	1063.7	1062.8	1062.7
157.5°	1092.7	1094.0	1095.1	1096.3	1097.5	1097.6	1096.7	1095.8	1095.0	1094.1	1094.0
160°	1114.0	1114.8	1115.7	1116.6	1117.4	1117.3	1116.2	1115.2	1114.1	1113.0	1113.0
162.5°	1129.9	1131.2	1132.6	1133.9	1135.3	1135.5	1134.4	1133.3	1132.3	1131.2	1131.1
165°	1152.8	1154.3	1155.8	1157.2	1158.7	1158.9	1157.6	1156.3	1155.0	1153.8	1153.8
167.5°	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5	1176.2	1174.9	1173.6	1172.3	1172.2
170°	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1	1186.7	1185.1	1183.7	1182.2	1182.2
172.5°	1189.8	1191.2	1192.7	1194.2	1195.7	1195.8	1194.5	1193.2	1191.9	1190.6	1190.6
175°	1198.3	1199.8	1201.3	1202.7	1204.2	1204.3	1203.1	1201.8	1200.5	1199.2	1199.2
177.5°	1202.9	1204.0	1205.2	1206.4	1207.5	1207.6	1206.6	1205.7	1204.6	1203.6	1203.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	12.7	12.4	11.1	9.6	8.7	7.5	7.1	6.2	6.1	6.5	6.7
90°	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0	3.0	5.1	7.3
92.5°	33.3	31.7	30.2	28.6	27.2	25.8	24.4	22.9	24.4	25.8	27.2
95°	66.7	65.1	63.3	61.8	60.3	58.9	57.4	55.9	57.4	58.9	60.3
97.5°	107.3	106.1	104.8	103.6	102.6	101.5	100.4	99.3	100.4	101.5	102.6
100°	137.1	136.1	135.0	133.9	132.6	131.3	130.1	128.8	130.1	131.3	132.6
102.5°	169.8	168.4	167.1	166.0	165.2	164.4	163.7	162.9	163.7	164.4	165.2
105°	219.8	217.8	216.0	214.8	214.4	214.0	213.5	213.1	213.5	214.0	214.4
107.5°	274.5	273.8	273.0	272.5	272.2	272.0	271.7	271.5	271.7	272.0	272.2
110°	310.8	310.4	310.0	309.6	309.2	308.7	308.3	307.9	308.3	308.7	309.2





TEST NUMBER: P331947-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	347.1	347.0	346.9	346.7	346.5	346.3	346.0	345.8	346.0	346.3	346.5
115°	404.4	404.8	405.2	405.1	404.5	403.8	403.2	402.6	403.2	403.8	404.5
117.5°	460.3	460.9	461.5	461.5	461.1	460.6	460.2	459.8	460.2	460.6	461.1
120°	498.5	499.5	500.6	500.5	499.2	498.0	496.7	495.5	496.7	498.0	499.2
122.5°	535.3	535.9	536.5	536.3	535.3	534.4	533.5	532.6	533.5	534.4	535.3
125°	591.0	591.4	591.8	591.7	591.1	590.4	589.9	589.2	589.9	590.4	591.1
127.5°	646.4	646.9	647.3	646.9	645.6	644.2	642.9	641.5	642.9	644.2	645.6
130°	682.3	683.0	683.6	683.1	681.4	679.7	678.0	676.4	678.0	679.7	681.4
132.5°	717.6	718.1	718.6	718.0	716.2	714.6	712.9	711.2	712.9	714.6	716.2
135°	769.6	769.8	770.1	769.5	768.3	767.0	765.7	764.4	765.7	767.0	768.3
137.5°	819.8	819.3	818.7	817.9	816.8	815.8	814.7	813.8	814.7	815.8	816.8
140°	853.0	852.9	852.6	852.0	851.0	849.9	848.9	847.8	848.9	849.9	851.0
142.5°	884.6	884.2	883.8	883.1	882.1	881.0	880.0	878.9	880.0	881.0	882.1
145°	930.8	930.3	929.6	929.0	928.6	928.2	927.8	927.4	927.8	928.2	928.6
147.5°	974.7	974.1	973.5	972.9	972.1	971.3	970.6	969.8	970.6	971.3	972.1
150°	1002.3	1001.9	1001.5	1001.1	1000.6	1000.2	999.8	999.4	999.8	1000.2	1000.6
152.5°	1027.0	1026.6	1026.4	1026.0	1025.4	1024.8	1024.3	1023.6	1024.3	1024.8	1025.4
155°	1062.4	1062.3	1062.0	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9
157.5°	1093.8	1093.6	1093.4	1093.5	1093.7	1094.0	1094.2	1094.5	1094.2	1094.0	1093.7
160°	1113.0	1113.0	1113.0	1113.3	1113.7	1114.1	1114.5	1114.9	1114.5	1114.1	1113.7
162.5°	1130.9	1130.7	1130.6	1130.8	1131.4	1132.0	1132.5	1133.1	1132.5	1132.0	1131.4
165°	1153.8	1153.8	1153.8	1154.1	1154.7	1155.4	1156.0	1156.7	1156.0	1155.4	1154.7
167.5°	1172.0	1171.8	1171.7	1172.0	1172.9	1173.7	1174.5	1175.4	1174.5	1173.7	1172.9
170°	1182.2	1182.2	1182.2	1182.6	1183.5	1184.3	1185.1	1186.0	1185.1	1184.3	1183.5
172.5°	1190.6	1190.6	1190.6	1191.0	1191.8	1192.6	1193.5	1194.3	1193.5	1192.6	1191.8
175°	1199.2	1199.2	1199.2	1199.7	1200.5	1201.3	1202.2	1203.1	1202.2	1201.3	1200.5
177.5°	1203.6	1203.6	1203.6	1204.0	1204.6	1205.3	1206.0	1206.6	1206.0	1205.3	1204.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	502.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	6.8	7.6	7.9	8.7	9.0	9.8	9.9	9.6	9.8	10.7	9.9
90°	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.5	25.3	26.1	26.7
92.5°	28.6	30.2	31.7	33.3	34.8	36.4	37.0	37.7	38.4	39.1	39.3
95°	61.8	63.3	65.1	66.7	68.4	70.1	70.9	71.7	72.6	73.5	73.9
97.5°	103.6	104.8	106.1	107.3	108.4	109.7	110.6	111.6	112.6	113.6	114.0
100°	133.9	135.0	136.1	137.1	138.2	139.3	139.9	140.5	141.1	141.8	142.3
102.5°	166.0	167.1	168.4	169.8	171.2	172.6	173.3	173.8	174.5	175.1	175.4
105°	214.8	216.0	217.8	219.8	221.7	223.6	223.6	223.6	223.6	223.6	223.8
107.5°	272.5	273.0	273.8	274.5	275.2	276.1	276.7	277.4	278.1	278.8	278.9
110°	309.6	310.0	310.4	310.8	311.2	311.7	312.5	313.3	314.2	315.0	315.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	346.7	346.9	347.0	347.1	347.2	347.2	348.3	349.3	350.3	351.3	351.8
115°	405.1	405.2	404.8	404.4	404.0	403.6	403.7	404.0	404.1	404.4	404.4
117.5°	461.5	461.5	460.9	460.3	459.8	459.3	459.2	459.2	459.1	459.1	458.8
120°	500.5	500.6	499.5	498.5	497.4	496.4	496.2	495.9	495.8	495.5	495.2
122.5°	536.3	536.5	535.9	535.3	534.8	534.3	533.7	533.2	532.6	532.1	531.5
125°	591.7	591.8	591.4	591.0	590.6	590.2	589.3	588.5	587.7	586.8	586.0
127.5°	646.9	647.3	646.9	646.4	646.0	645.5	644.3	643.1	642.0	640.7	639.7
130°	683.1	683.6	683.0	682.3	681.8	681.1	680.3	679.4	678.6	677.8	676.5
132.5°	718.0	718.6	718.1	717.6	717.1	716.7	715.7	714.7	713.7	712.7	711.6
135°	769.5	770.1	769.8	769.6	769.4	769.2	768.3	767.5	766.6	765.8	765.2
137.5°	817.9	818.7	819.3	819.8	820.4	820.9	820.0	819.1	818.2	817.3	816.5
140°	852.0	852.6	852.9	853.0	853.3	853.5	853.3	853.0	852.9	852.6	851.8
142.5°	883.1	883.8	884.2	884.6	884.9	885.3	885.1	884.9	884.7	884.5	883.8
145°	929.0	929.6	930.3	930.8	931.5	932.1	931.9	931.7	931.5	931.3	930.7
147.5°	972.9	973.5	974.1	974.7	975.3	975.9	975.9	975.9	975.9	975.9	975.3
150°	1001.1	1001.5	1001.9	1002.3	1002.7	1003.1	1003.1	1003.1	1003.1	1003.1	1002.6
152.5°	1026.0	1026.4	1026.6	1027.0	1027.2	1027.4	1027.8	1028.1	1028.4	1028.7	1028.4
155°	1061.9	1062.0	1062.3	1062.4	1062.7	1062.8	1063.7	1064.5	1065.4	1066.2	1065.9
157.5°	1093.5	1093.4	1093.6	1093.8	1094.0	1094.1	1095.0	1095.8	1096.7	1097.6	1097.5
160°	1113.3	1113.0	1113.0	1113.0	1113.0	1113.0	1114.1	1115.2	1116.2	1117.3	1117.4
162.5°	1130.8	1130.6	1130.7	1130.9	1131.1	1131.2	1132.3	1133.3	1134.4	1135.5	1135.3
165°	1154.1	1153.8	1153.8	1153.8	1153.8	1153.8	1155.0	1156.3	1157.6	1158.9	1158.7
167.5°	1172.0	1171.7	1171.8	1172.0	1172.2	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5
170°	1182.6	1182.2	1182.2	1182.2	1182.2	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1
172.5°	1191.0	1190.6	1190.6	1190.6	1190.6	1190.6	1191.9	1193.2	1194.5	1195.8	1195.7
175°	1199.7	1199.2	1199.2	1199.2	1199.2	1199.2	1200.5	1201.8	1203.1	1204.3	1204.2
177.5°	1204.0	1203.6	1203.6	1203.6	1203.6	1203.6	1204.6	1205.7	1206.6	1207.6	1207.5
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



TEST NUMBER: P331947-930

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	9.9	10.0	9.9	9.7	9.9	10.0	9.9	9.9	10.7	9.8	9.6
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.5
92.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.3	39.1	38.4	37.7
95°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.5	72.6	71.7
97.5°	113.9	113.8	113.7	113.7	113.7	113.8	113.9	114.0	113.6	112.6	111.6
100°	142.8	143.2	143.6	144.0	143.6	143.2	142.8	142.3	141.8	141.1	140.5
102.5°	175.3	175.2	175.1	175.0	175.1	175.2	175.3	175.4	175.1	174.5	173.8
105°	224.2	224.6	225.0	225.4	225.0	224.6	224.2	223.8	223.6	223.6	223.6
107.5°	278.7	278.4	278.2	277.9	278.2	278.4	278.7	278.9	278.8	278.1	277.4
110°	314.8	314.4	314.0	313.6	314.0	314.4	314.8	315.2	315.0	314.2	313.3



TEST NUMBER: P331947-930

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	351.7	351.6	351.6	351.5	351.6	351.6	351.7	351.8	351.3	350.3	349.3
115°	404.1	404.0	403.7	403.6	403.7	404.0	404.1	404.4	404.4	404.1	404.0
117.5°	458.2	457.5	457.0	456.4	457.0	457.5	458.2	458.8	459.1	459.1	459.2
120°	494.8	494.4	494.0	493.5	494.0	494.4	494.8	495.2	495.5	495.8	495.9
122.5°	530.9	530.4	529.7	529.1	529.7	530.4	530.9	531.5	532.1	532.6	533.2
125°	585.1	584.2	583.4	582.6	583.4	584.2	585.1	586.0	586.8	587.7	588.5
127.5°	638.7	637.7	636.7	635.9	636.7	637.7	638.7	639.7	640.7	642.0	643.1
130°	675.1	673.6	672.1	670.7	672.1	673.6	675.1	676.5	677.8	678.6	679.4
132.5°	710.5	709.3	708.2	707.0	708.2	709.3	710.5	711.6	712.7	713.7	714.7
135°	764.8	764.3	763.9	763.5	763.9	764.3	764.8	765.2	765.8	766.6	767.5
137.5°	815.7	815.0	814.2	813.3	814.2	815.0	815.7	816.5	817.3	818.2	819.1
140°	850.4	848.9	847.4	846.0	847.4	848.9	850.4	851.8	852.6	852.9	853.0
142.5°	882.6	881.5	880.4	879.3	880.4	881.5	882.6	883.8	884.5	884.7	884.9
145°	929.9	929.0	928.2	927.4	928.2	929.0	929.9	930.7	931.3	931.5	931.7
147.5°	974.0	972.7	971.4	970.2	971.4	972.7	974.0	975.3	975.9	975.9	975.9
150°	1001.3	1000.0	998.7	997.5	998.7	1000.0	1001.3	1002.6	1003.1	1003.1	1003.1
152.5°	1027.3	1026.2	1025.1	1024.0	1025.1	1026.2	1027.3	1028.4	1028.7	1028.4	1028.1
155°	1064.5	1063.0	1061.5	1060.0	1061.5	1063.0	1064.5	1065.9	1066.2	1065.4	1064.5
157.5°	1096.3	1095.1	1094.0	1092.7	1094.0	1095.1	1096.3	1097.5	1097.6	1096.7	1095.8
160°	1116.6	1115.7	1114.8	1114.0	1114.8	1115.7	1116.6	1117.4	1117.3	1116.2	1115.2
162.5°	1133.9	1132.6	1131.2	1129.9	1131.2	1132.6	1133.9	1135.3	1135.5	1134.4	1133.3
165°	1157.2	1155.8	1154.3	1152.8	1154.3	1155.8	1157.2	1158.7	1158.9	1157.6	1156.3
167.5°	1176.2	1174.9	1173.6	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5	1176.2	1174.9
170°	1186.7	1185.1	1183.7	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1	1186.7	1185.1
172.5°	1194.2	1192.7	1191.2	1189.8	1191.2	1192.7	1194.2	1195.7	1195.8	1194.5	1193.2
175°	1202.7	1201.3	1199.8	1198.3	1199.8	1201.3	1202.7	1204.2	1204.3	1203.1	1201.8
177.5°	1206.4	1205.2	1204.0	1202.9	1204.0	1205.2	1206.4	1207.5	1207.6	1206.6	1205.7
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



TEST NUMBER: P331947-930

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	9.9	9.8	9.0	8.7	7.9	7.6	6.8	6.7	6.5	6.1	6.2
90°	23.6	22.7	20.0	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0
92.5°	37.0	36.4	34.8	33.3	31.7	30.2	28.6	27.2	25.8	24.4	22.9
95°	70.9	70.1	68.4	66.7	65.1	63.3	61.8	60.3	58.9	57.4	55.9
97.5°	110.6	109.7	108.4	107.3	106.1	104.8	103.6	102.6	101.5	100.4	99.3
100°	139.9	139.3	138.2	137.1	136.1	135.0	133.9	132.6	131.3	130.1	128.8
102.5°	173.3	172.6	171.2	169.8	168.4	167.1	166.0	165.2	164.4	163.7	162.9
105°	223.6	223.6	221.7	219.8	217.8	216.0	214.8	214.4	214.0	213.5	213.1
107.5°	276.7	276.1	275.2	274.5	273.8	273.0	272.5	272.2	272.0	271.7	271.5
110°	312.5	311.7	311.2	310.8	310.4	310.0	309.6	309.2	308.7	308.3	307.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	348.3	347.2	347.2	347.1	347.0	346.9	346.7	346.5	346.3	346.0	345.8
115°	403.7	403.6	404.0	404.4	404.8	405.2	405.1	404.5	403.8	403.2	402.6
117.5°	459.2	459.3	459.8	460.3	460.9	461.5	461.5	461.1	460.6	460.2	459.8
120°	496.2	496.4	497.4	498.5	499.5	500.6	500.5	499.2	498.0	496.7	495.5
122.5°	533.7	534.3	534.8	535.3	535.9	536.5	536.3	535.3	534.4	533.5	532.6
125°	589.3	590.2	590.6	591.0	591.4	591.8	591.7	591.1	590.4	589.9	589.2
127.5°	644.3	645.5	646.0	646.4	646.9	647.3	646.9	645.6	644.2	642.9	641.5
130°	680.3	681.1	681.8	682.3	683.0	683.6	683.1	681.4	679.7	678.0	676.4
132.5°	715.7	716.7	717.1	717.6	718.1	718.6	718.0	716.2	714.6	712.9	711.2
135°	768.3	769.2	769.4	769.6	769.8	770.1	769.5	768.3	767.0	765.7	764.4
137.5°	820.0	820.9	820.4	819.8	819.3	818.7	817.9	816.8	815.8	814.7	813.8
140°	853.3	853.5	853.3	853.0	852.9	852.6	852.0	851.0	849.9	848.9	847.8
142.5°	885.1	885.3	884.9	884.6	884.2	883.8	883.1	882.1	881.0	880.0	878.9
145°	931.9	932.1	931.5	930.8	930.3	929.6	929.0	928.6	928.2	927.8	927.4
147.5°	975.9	975.9	975.3	974.7	974.1	973.5	972.9	972.1	971.3	970.6	969.8
150°	1003.1	1003.1	1002.7	1002.3	1001.9	1001.5	1001.1	1000.6	1000.2	999.8	999.4
152.5°	1027.8	1027.4	1027.2	1027.0	1026.6	1026.4	1026.0	1025.4	1024.8	1024.3	1023.6
155°	1063.7	1062.8	1062.7	1062.4	1062.3	1062.0	1061.9	1061.9	1061.9	1061.9	1061.9
157.5°	1095.0	1094.1	1094.0	1093.8	1093.6	1093.4	1093.5	1093.7	1094.0	1094.2	1094.5
160°	1114.1	1113.0	1113.0	1113.0	1113.0	1113.0	1113.3	1113.7	1114.1	1114.5	1114.9
162.5°	1132.3	1131.2	1131.1	1130.9	1130.7	1130.6	1130.8	1131.4	1132.0	1132.5	1133.1
165°	1155.0	1153.8	1153.8	1153.8	1153.8	1153.8	1154.1	1154.7	1155.4	1156.0	1156.7
167.5°	1173.6	1172.3	1172.2	1172.0	1171.8	1171.7	1172.0	1172.9	1173.7	1174.5	1175.4
170°	1183.7	1182.2	1182.2	1182.2	1182.2	1182.2	1182.6	1183.5	1184.3	1185.1	1186.0
172.5°	1191.9	1190.6	1190.6	1190.6	1190.6	1190.6	1191.0	1191.8	1192.6	1193.5	1194.3
175°	1200.5	1199.2	1199.2	1199.2	1199.2	1199.2	1199.7	1200.5	1201.3	1202.2	1203.1
177.5°	1204.6	1203.6	1203.6	1203.6	1203.6	1203.6	1204.0	1204.6	1205.3	1206.0	1206.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	7.1	7.5	8.7	9.6	11.1	12.4	12.7	12.7	13.0	13.0	12.9
90°	3.0	5.1	7.3	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.5
92.5°	24.4	25.8	27.2	28.6	30.2	31.7	33.3	34.8	36.4	37.0	37.7
95°	57.4	58.9	60.3	61.8	63.3	65.1	66.7	68.4	70.1	70.9	71.7
97.5°	100.4	101.5	102.6	103.6	104.8	106.1	107.3	108.4	109.7	110.6	111.6
100°	130.1	131.3	132.6	133.9	135.0	136.1	137.1	138.2	139.3	139.9	140.5
102.5°	163.7	164.4	165.2	166.0	167.1	168.4	169.8	171.2	172.6	173.3	173.8
105°	213.5	214.0	214.4	214.8	216.0	217.8	219.8	221.7	223.6	223.6	223.6
107.5°	271.7	272.0	272.2	272.5	273.0	273.8	274.5	275.2	276.1	276.7	277.4
110°	308.3	308.7	309.2	309.6	310.0	310.4	310.8	311.2	311.7	312.5	313.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	346.0	346.3	346.5	346.7	346.9	347.0	347.1	347.2	347.2	348.3	349.3
115°	403.2	403.8	404.5	405.1	405.2	404.8	404.4	404.0	403.6	403.7	404.0
117.5°	460.2	460.6	461.1	461.5	461.5	460.9	460.3	459.8	459.3	459.2	459.2
120°	496.7	498.0	499.2	500.5	500.6	499.5	498.5	497.4	496.4	496.2	495.9
122.5°	533.5	534.4	535.3	536.3	536.5	535.9	535.3	534.8	534.3	533.7	533.2
125°	589.9	590.4	591.1	591.7	591.8	591.4	591.0	590.6	590.2	589.3	588.5
127.5°	642.9	644.2	645.6	646.9	647.3	646.9	646.4	646.0	645.5	644.3	643.1
130°	678.0	679.7	681.4	683.1	683.6	683.0	682.3	681.8	681.1	680.3	679.4
132.5°	712.9	714.6	716.2	718.0	718.6	718.1	717.6	717.1	716.7	715.7	714.7
135°	765.7	767.0	768.3	769.5	770.1	769.8	769.6	769.4	769.2	768.3	767.5
137.5°	814.7	815.8	816.8	817.9	818.7	819.3	819.8	820.4	820.9	820.0	819.1
140°	848.9	849.9	851.0	852.0	852.6	852.9	853.0	853.3	853.5	853.3	853.0
142.5°	880.0	881.0	882.1	883.1	883.8	884.2	884.6	884.9	885.3	885.1	884.9
145°	927.8	928.2	928.6	929.0	929.6	930.3	930.8	931.5	932.1	931.9	931.7
147.5°	970.6	971.3	972.1	972.9	973.5	974.1	974.7	975.3	975.9	975.9	975.9
150°	999.8	1000.2	1000.6	1001.1	1001.5	1001.9	1002.3	1002.7	1003.1	1003.1	1003.1
152.5°	1024.3	1024.8	1025.4	1026.0	1026.4	1026.6	1027.0	1027.2	1027.4	1027.8	1028.1
155°	1061.9	1061.9	1061.9	1061.9	1062.0	1062.3	1062.4	1062.7	1062.8	1063.7	1064.5
157.5°	1094.2	1094.0	1093.7	1093.5	1093.4	1093.6	1093.8	1094.0	1094.1	1095.0	1095.8
160°	1114.5	1114.1	1113.7	1113.3	1113.0	1113.0	1113.0	1113.0	1113.0	1114.1	1115.2
162.5°	1132.5	1132.0	1131.4	1130.8	1130.6	1130.7	1130.9	1131.1	1131.2	1132.3	1133.3
165°	1156.0	1155.4	1154.7	1154.1	1153.8	1153.8	1153.8	1153.8	1153.8	1155.0	1156.3
167.5°	1174.5	1173.7	1172.9	1172.0	1171.7	1171.8	1172.0	1172.2	1172.3	1173.6	1174.9
170°	1185.1	1184.3	1183.5	1182.6	1182.2	1182.2	1182.2	1182.2	1182.2	1183.7	1185.1
172.5°	1193.5	1192.6	1191.8	1191.0	1190.6	1190.6	1190.6	1190.6	1190.6	1191.9	1193.2
175°	1202.2	1201.3	1200.5	1199.7	1199.2	1199.2	1199.2	1199.2	1199.2	1200.5	1201.8
177.5°	1206.0	1205.3	1204.6	1204.0	1203.6	1203.6	1203.6	1203.6	1203.6	1204.6	1205.7
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	12.8	12.7	12.6	13.0	12.8	12.6	13.2
90°	25.3	26.1	26.7	27.1	27.6	28.0	28.5
92.5°	38.4	39.1	39.3	39.1	38.8	38.5	38.2
95°	72.6	73.5	73.9	73.9	73.9	73.9	73.9
97.5°	112.6	113.6	114.0	113.9	113.8	113.7	113.7
100°	141.1	141.8	142.3	142.8	143.2	143.6	144.0
102.5°	174.5	175.1	175.4	175.3	175.2	175.1	175.0
105°	223.6	223.6	223.8	224.2	224.6	225.0	225.4
107.5°	278.1	278.8	278.9	278.7	278.4	278.2	277.9
110°	314.2	315.0	315.2	314.8	314.4	314.0	313.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	350.3	351.3	351.8	351.7	351.6	351.6	351.5
115°	404.1	404.4	404.4	404.1	404.0	403.7	403.6
117.5°	459.1	459.1	458.8	458.2	457.5	457.0	456.4
120°	495.8	495.5	495.2	494.8	494.4	494.0	493.5
122.5°	532.6	532.1	531.5	530.9	530.4	529.7	529.1
125°	587.7	586.8	586.0	585.1	584.2	583.4	582.6
127.5°	642.0	640.7	639.7	638.7	637.7	636.7	635.9
130°	678.6	677.8	676.5	675.1	673.6	672.1	670.7
132.5°	713.7	712.7	711.6	710.5	709.3	708.2	707.0
135°	766.6	765.8	765.2	764.8	764.3	763.9	763.5
137.5°	818.2	817.3	816.5	815.7	815.0	814.2	813.3
140°	852.9	852.6	851.8	850.4	848.9	847.4	846.0
142.5°	884.7	884.5	883.8	882.6	881.5	880.4	879.3
145°	931.5	931.3	930.7	929.9	929.0	928.2	927.4
147.5°	975.9	975.9	975.3	974.0	972.7	971.4	970.2
150°	1003.1	1003.1	1002.6	1001.3	1000.0	998.7	997.5
152.5°	1028.4	1028.7	1028.4	1027.3	1026.2	1025.1	1024.0
155°	1065.4	1066.2	1065.9	1064.5	1063.0	1061.5	1060.0
157.5°	1096.7	1097.6	1097.5	1096.3	1095.1	1094.0	1092.7
160°	1116.2	1117.3	1117.4	1116.6	1115.7	1114.8	1114.0
162.5°	1134.4	1135.5	1135.3	1133.9	1132.6	1131.2	1129.9
165°	1157.6	1158.9	1158.7	1157.2	1155.8	1154.3	1152.8
167.5°	1176.2	1177.5	1177.5	1176.2	1174.9	1173.6	1172.3
170°	1186.7	1188.1	1188.1	1186.7	1185.1	1183.7	1182.2
172.5°	1194.5	1195.8	1195.7	1194.2	1192.7	1191.2	1189.8
175°	1203.1	1204.3	1204.2	1202.7	1201.3	1199.8	1198.3
177.5°	1206.6	1207.6	1207.5	1206.4	1205.2	1204.0	1202.9
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9

(END OF REPORT)