

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011687

Luminaire Tested: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011687
REPORT IS A COMBINATION OF REPORTS P989945 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB30-4F0-XX-W2A-A4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

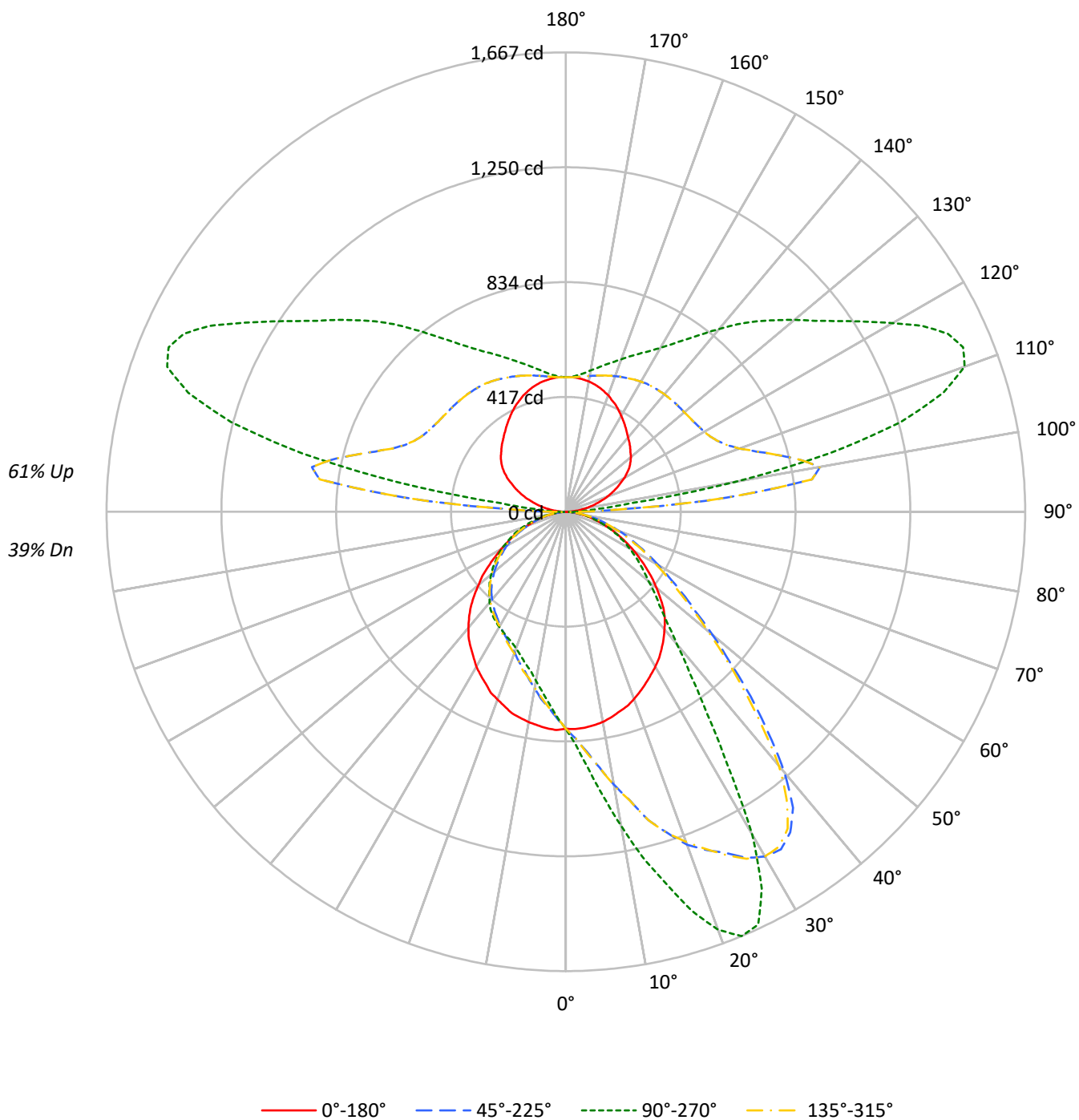
Lumens per Lamp: N/A
Luminaire Lumens: 6051.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
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: 24 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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39			
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34			
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28			
3	80	70	63	58	72	64	58	53	53	49	45	42	39	37	33	30	29	24			
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21			
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18			
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16			
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14			
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13			
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12			
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8473	8473	8473	8473
5°	8480	9763	8504	7287
10°	8426	11815	8434	6363
15°	8309	14012	8376	5728
20°	8209	16132	8226	5270
25°	8059	16539	8078	5032
30°	7954	13664	7954	4876
35°	7822	9138	7773	4737
40°	7664	6596	7569	4526
45°	7466	5226	7250	4263
50°	6984	4437	6735	4005
55°	6454	3900	6191	3717
60°	5918	3395	5604	3415
65°	5330	2908	5072	3012
70°	4718	2414	4403	2538
75°	4032	1820	3774	1960
80°	3187	1216	2942	1288
85°	2200	559	1758	508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 13666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	248.7	4.1
20°-30°	418.4	6.9
30°-40°	472.9	7.8
40°-50°	423.5	7.0
50°-60°	341.9	5.6
60°-70°	238.2	3.9
70°-80°	125.0	2.1
80°-90°	32.7	0.5
90°-100°	264.9	4.4
100°-110°	775.6	12.8
110°-120°	757.4	12.5
120°-130°	603.2	10.0
130°-140°	475.9	7.9
140°-150°	355.0	5.9
150°-160°	247.5	4.1
160°-170°	145.4	2.4
170°-180°	47.3	0.8
0°-30°	744.5	12.3
0°-40°	1217.4	20.1
0°-60°	1982.7	32.8
0°-90°	2378.7	39.3
90°-120°	1797.9	29.7
90°-150°	3232.0	53.4
90°-180°	3672.0	60.7
0°-180°	6051.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	786	935	789	698	786	75
15°	751	1392	757	569	751	212
25°	686	1652	688	503	686	317
35°	606	890	602	462	606	379
45°	503	481	488	392	503	384
55°	356	326	342	311	356	319
65°	220	212	210	220	220	220
75°	106	109	99	118	106	114
85°	23	25	18	23	23	26
90°	2	29	2	29	2	4
95°	34	115	34	115	34	36
105°	115	1257	115	1257	115	122
115°	203	1529	203	1529	203	201
125°	282	1206	282	1206	282	250
135°	330	977	330	977	330	255
145°	376	764	376	764	376	236
155°	428	634	428	634	428	197
165°	467	552	467	552	467	132
175°	487	497	487	497	487	46
180°	488	488	488	488	488	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	789.5	795.6	798.7	803.3	807.8	814.7	817.0	820.8	819.3	822.3	823.9
5°	786.5	797.2	806.3	817.7	828.4	836.1	843.7	855.9	865.0	866.6	873.4
7.5°	781.1	796.4	812.4	828.4	849.0	861.2	875.0	891.7	905.5	927.6	936.0
10°	774.3	795.6	818.5	840.6	868.9	887.9	904.7	932.9	961.2	984.0	1005.4
12.5°	763.6	790.3	820.0	852.8	889.5	911.6	934.5	971.8	1014.6	1049.6	1072.5
15°	750.6	784.2	822.3	857.4	897.8	939.0	963.4	1005.4	1066.4	1099.2	1158.0
17.5°	739.9	774.3	812.4	867.3	922.3	963.4	981.0	1058.0	1100.0	1154.9	1221.3
20°	723.2	766.6	815.5	870.4	941.3	966.5	1002.4	1080.2	1132.0	1203.7	1285.4
22.5°	705.6	752.1	810.9	868.1	947.4	974.1	1022.9	1084.7	1167.1	1238.1	1328.1
25°	686.5	736.9	796.4	864.3	942.1	981.0	1026.8	1103.0	1192.3	1281.5	1364.7
27.5°	667.5	722.4	784.2	852.1	927.6	973.4	1019.1	1098.5	1212.9	1309.8	1415.8
30°	649.2	704.1	765.9	835.3	914.6	958.9	1002.4	1101.5	1228.9	1338.0	1444.8
32.5°	629.3	685.8	750.6	808.6	888.7	936.0	984.8	1101.5	1238.8	1354.8	1452.4
35°	605.7	663.7	719.3	777.3	856.7	909.3	964.2	1093.9	1248.0	1360.1	1420.4
37.5°	582.8	633.9	682.0	738.4	821.6	878.0	941.3	1084.7	1243.4	1337.2	1354.0
40°	556.9	608.0	646.9	699.5	787.2	852.8	916.9	1072.5	1223.6	1283.1	1234.2
42.5°	531.7	572.1	605.7	656.8	752.1	816.2	885.6	1050.4	1184.7	1196.9	1087.0
45°	502.7	531.7	561.4	619.4	714.0	779.6	856.7	1018.4	1122.1	1087.0	948.2
47.5°	465.3	491.3	524.1	577.5	673.6	741.5	814.7	977.2	1031.3	958.1	806.3
50°	429.5	451.6	482.1	534.0	630.9	697.2	775.0	912.3	939.0	823.9	694.9
52.5°	393.6	410.4	440.1	492.0	588.9	653.0	723.9	846.0	830.7	707.1	592.7
55°	356.2	370.7	399.0	450.1	540.1	601.1	669.0	764.3	724.7	607.2	515.7
57.5°	319.6	334.9	363.9	406.6	491.3	550.8	604.9	679.7	620.2	526.3	445.5
60°	286.8	299.8	321.9	363.9	440.9	489.0	538.6	589.7	540.1	449.3	387.5
62.5°	252.5	264.7	285.3	323.4	389.8	432.5	472.2	514.1	459.2	392.9	337.9
65°	220.5	230.4	249.4	284.5	338.7	373.8	405.8	434.8	390.6	329.5	288.3
67.5°	191.5	199.9	215.9	247.2	292.9	318.1	344.0	368.4	331.1	282.2	247.2
70°	160.2	167.1	181.6	204.4	241.1	267.0	286.1	304.4	270.8	231.9	208.3
72.5°	132.7	139.6	148.8	172.4	197.6	213.6	234.2	244.1	225.0	193.0	169.3
75°	106.0	111.4	119.8	135.0	158.7	169.3	182.3	189.9	172.4	151.0	136.5
77.5°	83.1	85.4	91.5	102.2	118.2	130.4	140.4	144.9	132.7	119.0	106.8
80°	58.7	61.8	66.4	75.5	87.7	91.5	97.6	103.0	95.4	83.1	75.5
82.5°	38.9	42.7	45.0	48.8	56.4	61.0	62.6	67.1	60.3	55.7	52.6
85°	22.9	24.4	25.2	27.5	31.3	33.6	35.9	36.6	35.1	34.3	31.3
87.5°	11.4	11.4	11.4	13.0	13.7	15.3	16.0	16.0	16.0	15.3	14.5
90°	2.0	4.0	5.9	8.9	10.9	11.9	12.8	15.8	18.8	21.7	24.7
92.5°	14.8	21.7	31.6	40.5	50.4	59.3	68.2	99.8	152.2	203.6	183.8
95°	33.6	36.6	47.4	64.2	89.9	109.2	128.5	212.5	359.7	521.8	586.0
97.5°	53.4	54.4	63.2	78.1	103.8	125.0	146.3	229.3	400.2	673.0	901.3
100°	73.1	74.1	81.0	94.9	118.6	137.8	157.1	226.3	372.6	632.5	935.9
102.5°	93.9	95.9	101.8	114.6	135.4	152.7	170.0	230.3	348.9	573.2	871.6
105°	114.6	117.6	123.5	135.4	154.2	169.5	184.8	238.2	340.0	526.7	794.6
107.5°	136.4	139.3	145.3	157.1	174.9	189.2	203.6	251.0	338.0	493.1	726.4
110°	160.1	163.1	168.0	178.9	195.7	209.5	223.3	267.8	342.9	475.4	670.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	181.8	184.8	189.7	200.6	217.4	230.8	244.1	284.6	352.8	465.5	632.5
115°	202.6	206.5	212.5	222.4	239.2	252.5	265.8	303.4	363.7	464.5	607.8
117.5°	223.3	228.3	233.2	242.1	260.9	273.2	285.6	323.2	377.5	465.5	591.0
120°	245.1	248.1	253.0	262.9	281.7	294.0	306.4	341.9	393.3	469.4	580.1
122.5°	263.9	266.8	271.8	282.6	300.4	313.8	327.1	361.7	408.2	476.3	573.2
125°	281.7	283.6	289.6	300.4	319.2	332.5	345.9	380.5	424.0	483.3	567.3
127.5°	295.5	298.5	305.4	316.2	337.0	350.4	363.7	397.3	436.8	491.2	564.3
130°	308.3	311.3	320.2	332.1	352.8	366.2	379.5	412.1	449.7	499.1	561.3
132.5°	318.2	322.2	332.1	346.9	367.6	380.5	393.3	425.0	461.5	505.0	560.3
135°	330.1	334.0	344.9	359.7	380.5	393.8	407.2	437.8	471.4	510.9	559.4
137.5°	341.0	344.9	355.8	371.6	392.3	404.6	417.0	446.7	479.3	514.9	557.4
140°	351.8	356.8	366.6	382.5	402.2	414.6	426.9	455.6	485.2	518.8	556.4
142.5°	363.7	367.6	378.5	392.3	412.1	423.4	434.8	462.5	491.2	521.8	554.4
145°	376.5	379.5	388.4	403.2	420.0	431.4	442.7	468.4	495.1	522.8	552.4
147.5°	389.4	391.4	400.2	413.1	429.9	439.8	449.7	473.4	498.1	522.8	549.5
150°	402.2	403.2	411.1	424.0	437.8	446.7	455.6	478.3	499.1	522.8	545.5
152.5°	415.1	415.1	423.0	433.8	445.7	454.1	462.5	481.3	501.0	519.8	540.6
155°	427.9	427.9	433.8	443.7	454.6	461.5	468.4	485.2	501.0	517.8	534.6
157.5°	437.8	438.8	443.7	452.6	462.5	468.0	473.4	487.2	502.0	514.9	529.7
160°	449.7	449.7	453.6	461.5	468.4	473.4	478.3	490.2	502.0	512.9	523.8
162.5°	458.6	458.6	461.5	467.4	473.4	477.4	481.3	491.2	501.0	509.0	517.8
165°	467.4	466.5	468.4	473.4	477.3	480.8	484.2	492.2	499.1	505.0	511.9
167.5°	474.4	473.4	474.4	478.3	481.3	483.8	486.2	492.2	498.1	501.0	506.0
170°	480.3	478.3	479.3	482.3	484.2	485.2	486.2	491.2	495.1	497.1	500.1
172.5°	484.2	483.3	483.3	485.2	486.2	486.7	487.2	491.2	494.1	494.1	495.1
175°	487.2	486.2	485.2	487.2	487.2	487.7	488.2	490.2	492.2	491.2	491.2
177.5°	489.2	488.2	487.2	488.2	488.2	488.2	488.2	489.2	491.2	489.2	488.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	829.2	830.7	836.1	839.9	847.5	846.7	846.7	846.0	843.7	847.5	849.8
5°	887.2	900.1	901.7	918.4	919.2	926.1	930.6	926.8	936.0	935.2	928.4
7.5°	958.9	976.4	984.8	1000.8	1019.1	1014.6	1032.1	1035.2	1033.6	1041.3	1046.6
10°	1037.4	1068.0	1089.3	1119.1	1126.7	1131.3	1142.7	1152.6	1172.5	1157.2	1167.1
12.5°	1127.5	1149.6	1177.8	1225.1	1248.7	1264.0	1269.3	1276.2	1289.9	1281.5	1282.3
15°	1203.0	1232.7	1280.8	1339.5	1346.4	1365.5	1360.9	1402.1	1421.9	1392.2	1408.9
17.5°	1281.5	1321.2	1378.4	1429.5	1458.5	1471.5	1483.7	1523.4	1521.8	1517.3	1521.1
20°	1331.9	1396.7	1467.7	1535.6	1544.0	1553.9	1586.7	1603.5	1600.4	1613.4	1621.8
22.5°	1402.8	1471.5	1547.0	1592.0	1611.1	1622.5	1648.5	1659.1	1663.7	1666.8	1661.4
25°	1462.3	1535.6	1591.3	1630.9	1642.4	1648.5	1656.9	1659.9	1657.6	1652.3	1656.9
27.5°	1502.8	1561.5	1599.6	1617.9	1611.8	1601.9	1585.9	1575.2	1551.6	1540.1	1553.9
30°	1519.5	1545.5	1556.9	1526.4	1495.9	1471.5	1441.0	1384.5	1340.3	1353.2	1335.7
32.5°	1492.8	1476.1	1421.1	1342.6	1318.9	1279.3	1193.1	1126.7	1129.0	1093.9	1108.4
35°	1414.3	1338.0	1234.2	1115.2	1084.0	1062.6	968.0	953.5	923.0	890.2	899.4
37.5°	1275.4	1164.1	1038.2	950.5	903.9	857.4	804.0	772.0	753.7	739.9	750.6
40°	1106.1	970.3	866.6	788.0	748.3	718.6	682.0	649.9	629.3	627.0	630.9
42.5°	939.8	825.4	730.0	655.3	642.3	607.2	583.6	558.4	552.3	542.4	547.7
45°	795.6	702.6	624.0	563.0	547.7	538.6	509.6	493.5	486.7	480.6	489.7
47.5°	691.1	593.5	536.3	499.6	484.4	469.1	453.1	442.4	437.1	437.9	437.1
50°	590.4	518.7	468.4	440.1	431.0	420.3	407.3	400.5	398.2	391.3	396.7
52.5°	508.0	456.2	421.1	394.4	387.5	379.9	369.2	365.4	360.1	358.5	358.5
55°	441.7	401.2	373.0	355.5	347.1	341.0	334.9	330.3	326.5	326.5	326.5
57.5°	389.8	354.7	334.1	318.9	315.8	309.7	302.8	302.8	297.5	296.7	299.0
60°	345.6	314.3	298.3	285.3	280.7	279.2	272.3	272.3	270.8	267.0	270.0
62.5°	300.6	277.7	263.9	254.0	249.4	249.4	244.1	240.3	240.3	241.1	239.5
65°	259.4	242.6	230.4	222.7	220.5	217.4	216.6	213.6	211.3	212.1	211.3
67.5°	222.7	209.8	201.4	195.3	191.5	189.9	187.7	187.7	186.1	186.9	183.1
70°	189.9	177.0	170.1	164.0	162.5	162.5	159.4	160.2	158.7	161.0	159.4
72.5°	156.4	146.5	141.1	138.8	137.3	136.5	135.0	133.5	132.7	134.3	133.5
75°	126.6	118.2	114.4	112.9	111.4	111.4	110.6	109.8	109.1	109.1	109.1
77.5°	98.4	93.1	88.5	90.0	87.7	88.5	86.2	86.2	87.0	86.2	86.2
80°	72.5	68.7	68.7	67.1	64.1	65.6	65.6	63.3	62.6	64.1	61.8
82.5°	48.1	47.3	45.8	45.0	43.5	44.2	43.5	42.7	42.0	43.5	42.0
85°	28.2	28.2	27.5	25.9	27.5	26.7	25.9	25.9	25.2	25.2	25.2
87.5°	14.5	13.0	13.0	12.2	13.0	11.4	12.2	11.4	10.7	11.4	10.7
90°	23.7	24.7	25.7	26.7	27.7	28.7	27.7	28.7	29.6	28.7	29.6
92.5°	137.4	97.8	76.1	66.2	62.8	59.3	57.3	53.4	54.4	52.4	54.4
95°	475.4	355.8	241.1	188.8	171.0	153.2	134.4	125.5	118.6	114.6	118.6
97.5°	931.9	817.3	616.7	486.2	429.9	373.6	307.3	269.8	246.1	235.2	246.1
100°	1130.6	1165.2	1085.1	969.5	899.4	829.2	729.3	657.2	618.7	619.6	618.7
102.5°	1140.5	1280.8	1297.6	1242.2	1204.2	1166.1	1094.0	1040.6	1010.0	981.3	1010.0
105°	1078.2	1284.7	1383.6	1402.3	1389.4	1376.6	1331.2	1293.6	1262.0	1257.1	1262.0
107.5°	989.2	1225.4	1380.6	1457.7	1471.1	1484.4	1478.4	1460.6	1447.8	1436.9	1447.8
110°	906.2	1132.5	1314.4	1438.9	1473.5	1508.1	1535.8	1543.7	1541.7	1539.7	1541.7

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	834.1	1040.6	1227.4	1370.7	1417.6	1464.6	1520.9	1549.6	1559.5	1560.5	1559.5
115°	778.7	961.6	1133.5	1278.8	1332.6	1386.5	1460.6	1504.1	1523.9	1528.8	1523.9
117.5°	742.2	900.3	1052.5	1185.9	1241.8	1297.6	1374.7	1423.1	1452.7	1459.7	1452.7
120°	714.5	853.9	987.3	1105.9	1155.8	1205.7	1283.8	1339.1	1362.8	1368.7	1362.8
122.5°	691.8	817.3	934.9	1042.6	1088.0	1133.5	1200.7	1249.2	1275.8	1283.8	1275.8
125°	673.0	785.7	893.4	988.3	1027.8	1067.3	1130.6	1174.1	1198.8	1205.7	1198.8
127.5°	655.2	757.0	854.8	941.8	978.4	1014.9	1072.3	1109.8	1132.5	1138.5	1132.5
130°	641.4	730.3	819.3	899.3	932.9	966.5	1018.9	1054.5	1075.2	1083.1	1075.2
132.5°	628.5	705.6	785.7	858.8	890.4	922.0	970.5	1006.0	1023.8	1028.8	1023.8
135°	617.7	683.9	754.0	818.3	846.4	874.6	923.0	952.7	970.5	977.4	970.5
137.5°	607.8	663.1	722.4	779.7	804.9	830.1	871.6	902.3	917.1	923.0	917.1
140°	598.9	645.3	695.7	743.2	764.4	785.7	823.2	850.9	866.7	865.7	866.7
142.5°	591.0	628.5	670.0	709.6	727.4	745.1	775.8	799.5	813.3	812.4	813.3
145°	584.1	615.7	648.3	679.9	694.2	708.6	733.3	754.0	761.9	763.9	761.9
147.5°	577.1	604.8	631.5	658.2	668.6	678.9	698.7	713.5	721.4	722.4	721.4
150°	570.2	593.0	615.7	636.4	645.8	655.2	670.0	680.9	686.8	686.8	686.8
152.5°	562.3	582.1	600.9	618.7	626.1	633.5	644.3	654.2	657.2	657.2	657.2
155°	554.4	571.2	587.0	601.9	607.8	613.7	622.6	630.5	632.5	633.5	632.5
157.5°	545.5	559.4	573.2	585.1	590.0	594.9	602.8	608.8	610.7	610.7	610.7
160°	536.6	549.5	560.3	570.2	573.7	577.1	584.1	590.0	590.0	589.0	590.0
162.5°	527.7	537.6	546.5	555.4	558.3	561.3	565.3	570.2	570.2	569.2	570.2
165°	519.8	527.7	533.7	540.6	543.0	545.5	549.5	553.4	552.4	552.4	552.4
167.5°	511.9	518.8	523.8	527.7	529.7	531.7	533.7	536.6	535.6	535.6	535.6
170°	505.0	509.9	512.9	516.9	517.8	518.8	519.8	521.8	520.8	520.8	520.8
172.5°	498.1	502.0	504.0	507.0	507.5	508.0	508.0	509.9	508.0	507.0	508.0
175°	493.1	495.1	496.1	498.1	498.1	498.1	498.1	499.1	498.1	497.1	498.1
177.5°	489.2	490.2	491.2	492.2	492.2	492.2	491.2	492.2	490.2	490.2	490.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	843.7	846.0	839.9	838.3	838.3	841.4	839.1	818.5	822.3	817.7	816.2
5°	936.7	932.2	926.1	923.0	919.2	908.5	907.8	884.1	879.5	864.3	857.4
7.5°	1039.0	1035.2	1016.8	1014.6	1013.0	1003.1	977.9	952.8	934.5	916.9	900.1
10°	1155.7	1144.2	1135.8	1119.1	1110.7	1096.9	1064.1	1040.5	1009.2	982.5	947.4
12.5°	1296.0	1283.1	1254.8	1242.6	1232.0	1193.8	1161.0	1134.3	1073.3	1055.0	1011.5
15°	1399.0	1371.6	1368.5	1341.8	1340.3	1298.3	1235.8	1206.8	1159.5	1092.4	1047.4
17.5°	1510.4	1486.0	1466.9	1434.9	1430.3	1390.6	1344.9	1273.9	1222.0	1158.0	1100.8
20°	1592.0	1579.0	1546.2	1533.3	1506.6	1473.0	1425.7	1338.0	1274.7	1210.6	1140.4
22.5°	1656.9	1643.9	1617.9	1600.4	1585.1	1541.7	1485.2	1410.5	1323.5	1239.6	1167.1
25°	1656.1	1652.3	1641.6	1633.2	1621.8	1589.7	1542.4	1470.7	1373.8	1281.5	1180.9
27.5°	1562.3	1572.9	1591.3	1600.4	1598.1	1593.5	1566.8	1506.6	1419.6	1309.8	1196.9
30°	1367.0	1405.9	1440.2	1486.0	1499.7	1533.3	1548.5	1514.2	1444.8	1342.6	1217.5
32.5°	1133.6	1190.0	1264.8	1289.9	1333.4	1398.3	1470.7	1483.7	1440.2	1361.6	1230.4
35°	929.9	976.4	1034.4	1074.1	1113.0	1218.2	1309.8	1389.1	1403.6	1351.7	1227.4
37.5°	769.7	802.5	853.6	887.2	923.0	1013.0	1141.2	1244.2	1316.6	1318.2	1219.0
40°	653.7	668.2	712.5	736.9	771.2	849.0	963.4	1097.7	1203.7	1252.6	1196.9
42.5°	553.8	572.9	609.5	627.8	649.9	717.8	793.3	920.7	1051.9	1156.4	1155.7
45°	494.3	508.0	524.8	540.1	565.3	605.7	691.9	787.2	913.1	1031.3	1077.9
47.5°	441.7	454.6	471.4	476.0	492.8	530.9	583.6	666.7	784.2	901.7	989.4
50°	397.4	408.1	419.6	427.9	435.6	466.8	506.5	576.7	670.5	784.2	893.3
52.5°	363.1	370.7	380.6	385.2	392.1	415.0	445.5	497.4	574.4	678.2	784.2
55°	331.1	336.4	342.5	350.1	353.2	370.0	393.6	437.9	495.1	588.1	688.8
57.5°	301.3	303.6	307.4	312.0	315.8	330.3	350.9	380.6	431.0	502.7	598.1
60°	267.8	273.9	276.1	280.7	283.0	294.5	310.5	335.6	374.5	436.3	508.0
62.5°	239.5	243.3	247.2	249.4	254.8	258.6	271.6	294.5	326.5	372.3	437.1
65°	214.4	215.9	218.2	220.5	222.0	226.6	238.8	254.0	278.4	318.9	369.2
67.5°	185.4	186.9	189.9	190.7	192.2	198.3	205.2	218.2	238.8	269.3	310.5
70°	157.1	159.4	161.0	162.5	164.8	167.1	174.7	185.4	201.4	222.7	254.8
72.5°	132.7	135.0	135.0	136.5	135.8	138.8	146.5	154.1	164.8	182.3	210.5
75°	108.3	108.3	109.8	110.6	111.4	114.4	117.5	123.6	132.0	145.7	163.2
77.5°	85.4	84.7	86.2	86.2	86.2	88.5	91.5	94.6	99.9	109.8	123.6
80°	62.6	62.6	64.1	64.8	63.3	64.1	65.6	68.7	72.5	79.3	87.0
82.5°	41.2	44.2	43.5	44.2	43.5	45.0	45.8	46.5	48.1	51.1	56.4
85°	25.2	25.2	25.2	25.9	25.2	25.9	25.9	25.9	26.7	28.2	30.5
87.5°	10.7	10.7	10.7	11.4	10.7	10.7	11.4	10.7	11.4	11.4	12.2
90°	28.7	27.7	28.7	27.7	26.7	25.7	24.7	23.7	24.7	21.7	18.8
92.5°	53.4	57.3	59.3	62.8	66.2	76.1	97.8	137.4	183.8	203.6	152.2
95°	125.5	134.4	153.2	171.0	188.8	241.1	355.8	475.4	586.0	521.8	359.7
97.5°	269.8	307.3	373.6	429.9	486.2	616.7	817.3	931.9	901.3	673.0	400.2
100°	657.2	729.3	829.2	899.4	969.5	1085.1	1165.2	1130.6	935.9	632.5	372.6
102.5°	1040.6	1094.0	1166.1	1204.2	1242.2	1297.6	1280.8	1140.5	871.6	573.2	348.9
105°	1293.6	1331.2	1376.6	1389.4	1402.3	1383.6	1284.7	1078.2	794.6	526.7	340.0
107.5°	1460.6	1478.4	1484.4	1471.1	1457.7	1380.6	1225.4	989.2	726.4	493.1	338.0
110°	1543.7	1535.8	1508.1	1473.5	1438.9	1314.4	1132.5	906.2	670.0	475.4	342.9

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1549.6	1520.9	1464.6	1417.6	1370.7	1227.4	1040.6	834.1	632.5	465.5	352.8
115°	1504.1	1460.6	1386.5	1332.6	1278.8	1133.5	961.6	778.7	607.8	464.5	363.7
117.5°	1423.1	1374.7	1297.6	1241.8	1185.9	1052.5	900.3	742.2	591.0	465.5	377.5
120°	1339.1	1283.8	1205.7	1155.8	1105.9	987.3	853.9	714.5	580.1	469.4	393.3
122.5°	1249.2	1200.7	1133.5	1088.0	1042.6	934.9	817.3	691.8	573.2	476.3	408.2
125°	1174.1	1130.6	1067.3	1027.8	988.3	893.4	785.7	673.0	567.3	483.3	424.0
127.5°	1109.8	1072.3	1014.9	978.4	941.8	854.8	757.0	655.2	564.3	491.2	436.8
130°	1054.5	1018.9	966.5	932.9	899.3	819.3	730.3	641.4	561.3	499.1	449.7
132.5°	1006.0	970.5	922.0	890.4	858.8	785.7	705.6	628.5	560.3	505.0	461.5
135°	952.7	923.0	874.6	846.4	818.3	754.0	683.9	617.7	559.4	510.9	471.4
137.5°	902.3	871.6	830.1	804.9	779.7	722.4	663.1	607.8	557.4	514.9	479.3
140°	850.9	823.2	785.7	764.4	743.2	695.7	645.3	598.9	556.4	518.8	485.2
142.5°	799.5	775.8	745.1	727.4	709.6	670.0	628.5	591.0	554.4	521.8	491.2
145°	754.0	733.3	708.6	694.2	679.9	648.3	615.7	584.1	552.4	522.8	495.1
147.5°	713.5	698.7	678.9	668.6	658.2	631.5	604.8	577.1	549.5	522.8	498.1
150°	680.9	670.0	655.2	645.8	636.4	615.7	593.0	570.2	545.5	522.8	499.1
152.5°	654.2	644.3	633.5	626.1	618.7	600.9	582.1	562.3	540.6	519.8	501.0
155°	630.5	622.6	613.7	607.8	601.9	587.0	571.2	554.4	534.6	517.8	501.0
157.5°	608.8	602.8	594.9	590.0	585.1	573.2	559.4	545.5	529.7	514.9	502.0
160°	590.0	584.1	577.1	573.7	570.2	560.3	549.5	536.6	523.8	512.9	502.0
162.5°	570.2	565.3	561.3	558.3	555.4	546.5	537.6	527.7	517.8	509.0	501.0
165°	553.4	549.5	545.5	543.0	540.6	533.7	527.7	519.8	511.9	505.0	499.1
167.5°	536.6	533.7	531.7	529.7	527.7	523.8	518.8	511.9	506.0	501.0	498.1
170°	521.8	519.8	518.8	517.8	516.9	512.9	509.9	505.0	500.1	497.1	495.1
172.5°	509.9	508.0	508.0	507.5	507.0	504.0	502.0	498.1	495.1	494.1	494.1
175°	499.1	498.1	498.1	498.1	498.1	496.1	495.1	493.1	491.2	491.2	492.2
177.5°	492.2	491.2	492.2	492.2	492.2	491.2	490.2	489.2	488.2	489.2	491.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	808.6	806.3	806.3	804.8	800.2	791.8	791.0	792.6	788.0	783.4	776.6
5°	848.3	833.8	829.2	824.6	815.5	800.2	794.1	788.8	780.4	770.5	759.8
7.5°	881.8	861.2	855.1	846.7	828.4	807.1	793.3	781.9	770.5	756.7	743.8
10°	923.8	894.0	879.5	867.3	842.2	812.4	791.8	775.0	756.7	739.9	723.2
12.5°	971.1	923.0	918.4	888.7	859.7	815.5	790.3	765.9	741.5	720.9	703.3
15°	1010.7	958.1	939.0	919.2	863.5	808.6	784.2	756.7	728.5	706.4	680.4
17.5°	1035.9	992.4	952.0	925.3	867.3	818.5	771.2	739.9	710.2	679.7	658.3
20°	1066.4	1003.1	968.0	932.2	875.0	810.9	763.6	724.7	688.1	660.6	634.7
22.5°	1096.9	1011.5	982.5	943.6	876.5	803.3	749.9	711.0	669.0	641.5	613.3
25°	1093.9	1023.7	975.7	942.9	861.2	796.4	733.8	688.1	649.2	614.1	585.8
27.5°	1096.2	1010.0	961.2	923.0	850.5	786.5	717.1	669.0	628.6	592.0	562.2
30°	1096.9	989.4	946.7	900.9	830.7	762.8	698.0	649.2	606.4	566.8	540.1
32.5°	1094.7	972.6	919.2	878.0	799.4	739.9	675.9	624.0	580.5	543.9	518.7
35°	1089.3	952.8	891.0	839.1	767.4	707.1	655.3	601.9	555.3	521.8	492.8
37.5°	1074.8	931.4	861.2	810.1	730.0	669.0	623.2	579.0	534.0	494.3	469.9
40°	1064.1	902.4	831.5	775.8	689.6	630.1	592.0	550.0	505.8	469.9	446.3
42.5°	1039.7	875.0	801.0	734.6	649.9	588.9	553.0	519.5	481.3	446.3	424.9
45°	1000.1	845.2	763.6	696.5	606.4	548.5	515.7	488.2	454.6	421.1	399.7
47.5°	944.4	802.5	723.9	656.8	563.7	505.0	472.2	451.6	424.9	396.7	378.4
50°	884.1	756.0	683.5	617.1	522.5	465.3	433.3	414.2	396.7	370.7	353.2
52.5°	805.5	706.4	637.0	573.6	478.3	423.4	395.1	381.4	363.1	344.8	329.5
55°	729.3	642.3	585.1	524.8	434.8	383.7	356.2	341.7	331.1	315.8	303.6
57.5°	640.8	582.8	530.2	475.2	394.4	347.8	321.9	304.4	297.5	290.6	279.2
60°	559.2	514.9	472.2	426.4	352.4	310.5	285.3	271.6	264.7	260.1	252.5
62.5°	484.4	450.1	413.5	376.8	309.7	271.6	252.5	238.8	232.7	231.9	225.0
65°	412.7	388.3	358.5	322.7	270.0	236.5	218.2	209.8	202.9	202.9	197.6
67.5°	341.0	324.2	300.6	275.4	234.2	202.9	186.1	178.5	174.7	174.7	170.9
70°	283.8	272.3	251.0	228.8	193.0	169.3	156.4	149.5	147.2	148.0	144.9
72.5°	230.4	218.2	200.6	184.6	157.9	140.4	131.2	123.6	119.8	120.5	119.8
75°	178.5	172.4	157.1	144.9	123.6	111.4	103.0	99.2	96.1	96.9	95.4
77.5°	134.3	125.1	116.7	108.3	95.4	85.4	78.6	74.8	72.5	72.5	72.5
80°	91.5	90.0	83.1	78.6	67.9	60.3	54.9	54.2	51.9	51.9	51.9
82.5°	59.5	55.7	51.9	48.8	42.7	38.1	35.9	34.3	33.6	32.8	34.3
85°	32.8	30.5	29.0	25.9	23.6	21.4	19.1	18.3	17.5	18.3	17.5
87.5°	13.0	10.7	10.7	9.9	9.2	8.4	8.4	6.9	6.9	6.1	6.1
90°	15.8	12.8	11.9	10.9	8.9	5.9	4.0	2.0	4.0	5.9	8.9
92.5°	99.8	68.2	59.3	50.4	40.5	31.6	21.7	14.8	21.7	31.6	40.5
95°	212.5	128.5	109.2	89.9	64.2	47.4	36.6	33.6	36.6	47.4	64.2
97.5°	229.3	146.3	125.0	103.8	78.1	63.2	54.4	53.4	54.4	63.2	78.1
100°	226.3	157.1	137.8	118.6	94.9	81.0	74.1	73.1	74.1	81.0	94.9
102.5°	230.3	170.0	152.7	135.4	114.6	101.8	95.9	93.9	95.9	101.8	114.6
105°	238.2	184.8	169.5	154.2	135.4	123.5	117.6	114.6	117.6	123.5	135.4
107.5°	251.0	203.6	189.2	174.9	157.1	145.3	139.3	136.4	139.3	145.3	157.1
110°	267.8	223.3	209.5	195.7	178.9	168.0	163.1	160.1	163.1	168.0	178.9

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	284.6	244.1	230.8	217.4	200.6	189.7	184.8	181.8	184.8	189.7	200.6
115°	303.4	265.8	252.5	239.2	222.4	212.5	206.5	202.6	206.5	212.5	222.4
117.5°	323.2	285.6	273.2	260.9	242.1	233.2	228.3	223.3	228.3	233.2	242.1
120°	341.9	306.4	294.0	281.7	262.9	253.0	248.1	245.1	248.1	253.0	262.9
122.5°	361.7	327.1	313.8	300.4	282.6	271.8	266.8	263.9	266.8	271.8	282.6
125°	380.5	345.9	332.5	319.2	300.4	289.6	283.6	281.7	283.6	289.6	300.4
127.5°	397.3	363.7	350.4	337.0	316.2	305.4	298.5	295.5	298.5	305.4	316.2
130°	412.1	379.5	366.2	352.8	332.1	320.2	311.3	308.3	311.3	320.2	332.1
132.5°	425.0	393.3	380.5	367.6	346.9	332.1	322.2	318.2	322.2	332.1	346.9
135°	437.8	407.2	393.8	380.5	359.7	344.9	334.0	330.1	334.0	344.9	359.7
137.5°	446.7	417.0	404.6	392.3	371.6	355.8	344.9	341.0	344.9	355.8	371.6
140°	455.6	426.9	414.6	402.2	382.5	366.6	356.8	351.8	356.8	366.6	382.5
142.5°	462.5	434.8	423.4	412.1	392.3	378.5	367.6	363.7	367.6	378.5	392.3
145°	468.4	442.7	431.4	420.0	403.2	388.4	379.5	376.5	379.5	388.4	403.2
147.5°	473.4	449.7	439.8	429.9	413.1	400.2	391.4	389.4	391.4	400.2	413.1
150°	478.3	455.6	446.7	437.8	424.0	411.1	403.2	402.2	403.2	411.1	424.0
152.5°	481.3	462.5	454.1	445.7	433.8	423.0	415.1	415.1	415.1	423.0	433.8
155°	485.2	468.4	461.5	454.6	443.7	433.8	427.9	427.9	427.9	433.8	443.7
157.5°	487.2	473.4	468.0	462.5	452.6	443.7	438.8	437.8	438.8	443.7	452.6
160°	490.2	478.3	473.4	468.4	461.5	453.6	449.7	449.7	449.7	453.6	461.5
162.5°	491.2	481.3	477.4	473.4	467.4	461.5	458.6	458.6	458.6	461.5	467.4
165°	492.2	484.2	480.8	477.3	473.4	468.4	466.5	467.4	466.5	468.4	473.4
167.5°	492.2	486.2	483.8	481.3	478.3	474.4	473.4	474.4	473.4	474.4	478.3
170°	491.2	486.2	485.2	484.2	482.3	479.3	478.3	480.3	478.3	479.3	482.3
172.5°	491.2	487.2	486.7	486.2	485.2	483.3	483.3	484.2	483.3	483.3	485.2
175°	490.2	488.2	487.7	487.2	487.2	485.2	486.2	487.2	486.2	485.2	487.2
177.5°	489.2	488.2	488.2	488.2	488.2	487.2	488.2	489.2	488.2	487.2	488.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	775.0	774.3	775.8	771.2	763.6	759.8	749.1	746.8	746.0	746.8	747.6
5°	753.7	752.9	750.6	743.0	733.8	727.0	714.0	713.2	708.7	704.1	706.4
7.5°	733.1	730.0	725.4	715.5	703.3	695.7	685.0	677.4	671.3	667.5	664.4
10°	712.5	707.9	703.3	690.4	675.1	663.7	650.7	644.6	637.7	634.7	631.6
12.5°	685.8	681.2	672.8	657.6	648.4	633.9	620.9	614.8	611.0	604.9	601.1
15°	664.4	655.3	650.7	634.7	615.6	614.1	590.4	588.9	581.3	581.3	575.2
17.5°	640.0	633.1	624.8	608.7	595.0	581.3	569.1	564.5	557.6	556.1	553.0
20°	616.4	607.2	604.2	588.1	573.6	556.9	543.9	539.3	536.3	533.2	535.5
22.5°	592.0	584.3	576.7	562.2	551.5	534.7	527.1	522.5	518.0	516.4	517.2
25°	568.3	561.4	553.8	539.3	527.9	514.1	507.3	505.0	502.7	502.7	501.9
27.5°	545.4	538.6	531.7	518.7	507.3	497.4	492.0	489.7	487.4	489.0	490.5
30°	521.8	515.7	509.6	498.1	489.0	479.8	476.8	475.2	474.5	478.3	478.3
32.5°	500.4	495.1	490.5	479.8	470.7	463.0	460.7	461.5	462.3	464.6	466.1
35°	478.3	474.5	469.9	460.7	453.1	446.3	447.0	447.0	448.5	452.4	455.4
37.5°	458.5	453.1	449.3	441.7	435.6	429.5	431.8	434.0	435.6	440.1	441.7
40°	434.8	432.5	429.5	421.8	416.5	415.7	416.5	418.0	421.1	423.4	425.7
42.5°	415.7	412.7	408.9	402.8	398.2	399.0	399.7	401.2	402.8	406.6	408.9
45°	394.4	392.1	389.0	383.7	379.9	380.6	381.4	381.4	382.9	387.5	389.0
47.5°	370.7	371.5	367.7	362.3	360.1	360.1	360.1	361.6	365.4	366.9	367.7
50°	347.8	346.3	345.6	340.2	338.7	337.9	338.7	339.5	344.8	344.0	346.3
52.5°	323.4	323.4	322.7	319.6	317.3	317.3	315.8	319.6	321.1	322.7	325.0
55°	299.8	297.5	296.7	295.2	292.2	291.4	292.9	297.5	299.0	300.6	302.8
57.5°	273.9	273.9	272.3	270.0	270.0	270.0	270.0	273.1	275.4	276.9	281.5
60°	250.2	247.2	244.9	244.9	244.9	244.1	248.7	248.7	253.3	254.0	255.5
62.5°	222.0	220.5	218.9	219.7	218.9	220.5	222.0	225.0	225.8	228.1	230.4
65°	195.3	195.3	193.8	198.3	195.3	195.3	199.1	199.1	200.6	202.9	206.0
67.5°	169.3	170.1	168.6	168.6	170.1	170.9	171.6	174.7	175.4	178.5	182.3
70°	142.6	144.2	144.9	143.4	144.9	146.5	148.0	148.8	151.8	153.3	155.6
72.5°	119.0	120.5	118.2	119.0	119.8	121.3	122.1	123.6	125.1	129.7	131.2
75°	95.4	94.6	93.8	96.9	95.4	98.4	99.2	99.2	100.7	104.5	106.0
77.5°	73.2	73.2	74.0	72.5	74.8	74.0	74.8	77.0	79.3	79.3	85.4
80°	51.1	52.6	52.6	52.6	53.4	54.2	52.6	56.4	57.2	57.2	59.5
82.5°	32.8	33.6	32.8	34.3	34.3	35.9	35.1	35.9	37.4	38.9	39.7
85°	17.5	17.5	19.1	19.1	18.3	19.1	18.3	19.1	20.6	20.6	21.4
87.5°	6.1	6.1	6.1	6.1	6.9	6.1	6.9	6.9	6.1	6.1	8.4
90°	10.9	11.9	12.8	15.8	18.8	21.7	24.7	23.7	24.7	25.7	26.7
92.5°	50.4	59.3	68.2	99.8	152.2	203.6	183.8	137.4	97.8	76.1	66.2
95°	89.9	109.2	128.5	212.5	359.7	521.8	586.0	475.4	355.8	241.1	188.8
97.5°	103.8	125.0	146.3	229.3	400.2	673.0	901.3	931.9	817.3	616.7	486.2
100°	118.6	137.8	157.1	226.3	372.6	632.5	935.9	1130.6	1165.2	1085.1	969.5
102.5°	135.4	152.7	170.0	230.3	348.9	573.2	871.6	1140.5	1280.8	1297.6	1242.2
105°	154.2	169.5	184.8	238.2	340.0	526.7	794.6	1078.2	1284.7	1383.6	1402.3
107.5°	174.9	189.2	203.6	251.0	338.0	493.1	726.4	989.2	1225.4	1380.6	1457.7
110°	195.7	209.5	223.3	267.8	342.9	475.4	670.0	906.2	1132.5	1314.4	1438.9

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	217.4	230.8	244.1	284.6	352.8	465.5	632.5	834.1	1040.6	1227.4	1370.7
115°	239.2	252.5	265.8	303.4	363.7	464.5	607.8	778.7	961.6	1133.5	1278.8
117.5°	260.9	273.2	285.6	323.2	377.5	465.5	591.0	742.2	900.3	1052.5	1185.9
120°	281.7	294.0	306.4	341.9	393.3	469.4	580.1	714.5	853.9	987.3	1105.9
122.5°	300.4	313.8	327.1	361.7	408.2	476.3	573.2	691.8	817.3	934.9	1042.6
125°	319.2	332.5	345.9	380.5	424.0	483.3	567.3	673.0	785.7	893.4	988.3
127.5°	337.0	350.4	363.7	397.3	436.8	491.2	564.3	655.2	757.0	854.8	941.8
130°	352.8	366.2	379.5	412.1	449.7	499.1	561.3	641.4	730.3	819.3	899.3
132.5°	367.6	380.5	393.3	425.0	461.5	505.0	560.3	628.5	705.6	785.7	858.8
135°	380.5	393.8	407.2	437.8	471.4	510.9	559.4	617.7	683.9	754.0	818.3
137.5°	392.3	404.6	417.0	446.7	479.3	514.9	557.4	607.8	663.1	722.4	779.7
140°	402.2	414.6	426.9	455.6	485.2	518.8	556.4	598.9	645.3	695.7	743.2
142.5°	412.1	423.4	434.8	462.5	491.2	521.8	554.4	591.0	628.5	670.0	709.6
145°	420.0	431.4	442.7	468.4	495.1	522.8	552.4	584.1	615.7	648.3	679.9
147.5°	429.9	439.8	449.7	473.4	498.1	522.8	549.5	577.1	604.8	631.5	658.2
150°	437.8	446.7	455.6	478.3	499.1	522.8	545.5	570.2	593.0	615.7	636.4
152.5°	445.7	454.1	462.5	481.3	501.0	519.8	540.6	562.3	582.1	600.9	618.7
155°	454.6	461.5	468.4	485.2	501.0	517.8	534.6	554.4	571.2	587.0	601.9
157.5°	462.5	468.0	473.4	487.2	502.0	514.9	529.7	545.5	559.4	573.2	585.1
160°	468.4	473.4	478.3	490.2	502.0	512.9	523.8	536.6	549.5	560.3	570.2
162.5°	473.4	477.4	481.3	491.2	501.0	509.0	517.8	527.7	537.6	546.5	555.4
165°	477.3	480.8	484.2	492.2	499.1	505.0	511.9	519.8	527.7	533.7	540.6
167.5°	481.3	483.8	486.2	492.2	498.1	501.0	506.0	511.9	518.8	523.8	527.7
170°	484.2	485.2	486.2	491.2	495.1	497.1	500.1	505.0	509.9	512.9	516.9
172.5°	486.2	486.7	487.2	491.2	494.1	494.1	495.1	498.1	502.0	504.0	507.0
175°	487.2	487.7	488.2	490.2	492.2	491.2	491.2	493.1	495.1	496.1	498.1
177.5°	488.2	488.2	488.2	489.2	491.2	489.2	488.2	489.2	490.2	491.2	492.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	746.8	747.6	744.5	742.2	748.3	744.5	744.5	745.3	743.8	746.0	745.3
5°	704.8	705.6	700.3	701.8	698.7	698.0	697.2	701.8	701.0	700.3	701.8
7.5°	663.7	663.7	661.4	659.8	659.8	657.6	660.6	659.8	661.4	661.4	663.7
10°	629.3	630.9	627.0	623.2	622.5	623.2	623.2	624.0	624.8	630.1	629.3
12.5°	601.1	598.8	598.1	595.8	592.0	590.4	588.9	597.3	595.0	595.0	595.0
15°	569.8	575.2	574.4	567.5	566.0	569.1	567.5	567.5	575.2	574.4	573.6
17.5°	553.0	551.5	550.0	546.2	546.9	546.2	546.9	546.9	551.5	551.5	551.5
20°	534.0	530.9	530.9	529.4	529.4	527.1	530.2	530.9	534.0	534.0	534.7
22.5°	517.2	514.9	514.9	514.1	515.7	512.6	515.7	516.4	516.4	518.7	518.7
25°	502.7	501.2	501.2	502.7	502.7	502.7	502.7	505.8	503.5	504.2	503.5
27.5°	489.7	490.5	491.3	492.0	491.3	492.0	492.8	494.3	495.1	494.3	492.8
30°	477.5	479.8	480.6	480.6	482.1	482.9	483.6	483.6	484.4	482.1	483.6
32.5°	468.4	468.4	469.9	470.7	472.2	473.0	473.0	474.5	473.7	471.4	472.2
35°	455.4	455.4	458.5	460.0	462.3	461.5	462.3	462.3	463.0	461.5	459.2
37.5°	442.4	444.0	444.0	447.0	447.8	448.5	447.8	449.3	448.5	447.0	446.3
40°	427.2	426.4	427.2	429.5	430.2	430.2	430.2	431.8	431.8	431.8	431.0
42.5°	408.1	410.4	409.6	411.9	411.2	411.2	412.7	414.2	415.0	412.7	413.5
45°	389.8	389.8	391.3	391.3	392.1	392.1	395.1	393.6	395.1	393.6	394.4
47.5°	370.0	370.7	370.7	371.5	373.0	374.5	373.0	373.8	373.8	374.5	373.0
50°	347.8	347.8	349.4	351.7	354.7	353.2	352.4	355.5	353.2	353.2	351.7
52.5°	325.0	327.3	328.0	330.3	332.6	333.4	334.1	332.6	333.4	331.1	331.8
55°	302.8	303.6	306.7	308.9	311.2	311.2	310.5	311.2	312.0	308.9	308.9
57.5°	280.7	283.0	286.1	286.1	289.1	289.1	288.3	288.3	289.1	286.8	286.1
60°	257.1	259.4	263.2	263.2	267.8	268.5	267.0	265.5	265.5	263.2	263.9
62.5°	231.9	234.2	236.5	240.3	243.3	241.8	244.9	241.8	242.6	238.0	238.0
65°	209.8	210.5	214.4	218.2	218.2	219.7	218.2	218.9	216.6	216.6	213.6
67.5°	183.8	183.8	187.7	191.5	195.3	195.3	195.3	193.0	193.0	190.7	190.7
70°	161.0	160.2	164.0	166.3	168.6	169.3	167.8	167.1	165.5	163.2	162.5
72.5°	132.7	134.3	138.1	139.6	143.4	142.6	146.5	141.9	141.9	138.1	137.3
75°	107.6	109.1	112.9	115.2	117.5	117.5	119.8	117.5	114.4	112.9	112.1
77.5°	85.4	84.7	87.7	91.5	92.3	91.5	93.1	92.3	89.3	89.3	87.7
80°	61.0	63.3	66.4	65.6	68.7	67.9	67.9	66.4	66.4	64.1	65.6
82.5°	40.4	42.7	43.5	42.7	43.5	45.0	45.8	45.0	45.0	43.5	44.2
85°	21.4	21.4	22.9	23.6	22.9	22.9	23.6	25.9	24.4	22.9	24.4
87.5°	6.9	6.1	6.1	6.9	6.1	6.1	6.9	6.9	7.6	7.6	7.6
90°	27.7	28.7	27.7	28.7	29.6	28.7	29.6	28.7	27.7	28.7	27.7
92.5°	62.8	59.3	57.3	53.4	54.4	52.4	54.4	53.4	57.3	59.3	62.8
95°	171.0	153.2	134.4	125.5	118.6	114.6	118.6	125.5	134.4	153.2	171.0
97.5°	429.9	373.6	307.3	269.8	246.1	235.2	246.1	269.8	307.3	373.6	429.9
100°	899.4	829.2	729.3	657.2	618.7	619.6	618.7	657.2	729.3	829.2	899.4
102.5°	1204.2	1166.1	1094.0	1040.6	1010.0	981.3	1010.0	1040.6	1094.0	1166.1	1204.2
105°	1389.4	1376.6	1331.2	1293.6	1262.0	1257.1	1262.0	1293.6	1331.2	1376.6	1389.4
107.5°	1471.1	1484.4	1478.4	1460.6	1447.8	1436.9	1447.8	1460.6	1478.4	1484.4	1471.1
110°	1473.5	1508.1	1535.8	1543.7	1541.7	1539.7	1541.7	1543.7	1535.8	1508.1	1473.5

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1417.6	1464.6	1520.9	1549.6	1559.5	1560.5	1559.5	1549.6	1520.9	1464.6	1417.6
115°	1332.6	1386.5	1460.6	1504.1	1523.9	1528.8	1523.9	1504.1	1460.6	1386.5	1332.6
117.5°	1241.8	1297.6	1374.7	1423.1	1452.7	1459.7	1452.7	1423.1	1374.7	1297.6	1241.8
120°	1155.8	1205.7	1283.8	1339.1	1362.8	1368.7	1362.8	1339.1	1283.8	1205.7	1155.8
122.5°	1088.0	1133.5	1200.7	1249.2	1275.8	1283.8	1275.8	1249.2	1200.7	1133.5	1088.0
125°	1027.8	1067.3	1130.6	1174.1	1198.8	1205.7	1198.8	1174.1	1130.6	1067.3	1027.8
127.5°	978.4	1014.9	1072.3	1109.8	1132.5	1138.5	1132.5	1109.8	1072.3	1014.9	978.4
130°	932.9	966.5	1018.9	1054.5	1075.2	1083.1	1075.2	1054.5	1018.9	966.5	932.9
132.5°	890.4	922.0	970.5	1006.0	1023.8	1028.8	1023.8	1006.0	970.5	922.0	890.4
135°	846.4	874.6	923.0	952.7	970.5	977.4	970.5	952.7	923.0	874.6	846.4
137.5°	804.9	830.1	871.6	902.3	917.1	923.0	917.1	902.3	871.6	830.1	804.9
140°	764.4	785.7	823.2	850.9	866.7	865.7	866.7	850.9	823.2	785.7	764.4
142.5°	727.4	745.1	775.8	799.5	813.3	812.4	813.3	799.5	775.8	745.1	727.4
145°	694.2	708.6	733.3	754.0	761.9	763.9	761.9	754.0	733.3	708.6	694.2
147.5°	668.6	678.9	698.7	713.5	721.4	722.4	721.4	713.5	698.7	678.9	668.6
150°	645.8	655.2	670.0	680.9	686.8	686.8	686.8	680.9	670.0	655.2	645.8
152.5°	626.1	633.5	644.3	654.2	657.2	657.2	657.2	654.2	644.3	633.5	626.1
155°	607.8	613.7	622.6	630.5	632.5	633.5	632.5	630.5	622.6	613.7	607.8
157.5°	590.0	594.9	602.8	608.8	610.7	610.7	610.7	608.8	602.8	594.9	590.0
160°	573.7	577.1	584.1	590.0	590.0	589.0	590.0	590.0	584.1	577.1	573.7
162.5°	558.3	561.3	565.3	570.2	570.2	569.2	570.2	570.2	565.3	561.3	558.3
165°	543.0	545.5	549.5	553.4	552.4	552.4	552.4	553.4	549.5	545.5	543.0
167.5°	529.7	531.7	533.7	536.6	535.6	535.6	535.6	536.6	533.7	531.7	529.7
170°	517.8	518.8	519.8	521.8	520.8	520.8	520.8	521.8	519.8	518.8	517.8
172.5°	507.5	508.0	508.0	509.9	508.0	507.0	508.0	509.9	508.0	508.0	507.5
175°	498.1	498.1	498.1	499.1	498.1	497.1	498.1	499.1	498.1	498.1	498.1
177.5°	492.2	492.2	491.2	492.2	490.2	490.2	490.2	492.2	491.2	492.2	492.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	747.6	749.1	749.9	746.8	744.5	748.3	753.7	757.5	760.5	764.3	766.6
5°	703.3	708.7	708.7	710.2	712.5	716.3	726.2	733.1	739.2	743.8	747.6
7.5°	665.9	669.8	672.0	675.9	679.7	685.0	696.5	706.4	715.5	720.9	727.0
10°	632.4	635.4	639.2	641.5	648.4	656.0	670.5	678.9	689.6	698.0	705.6
12.5°	600.3	611.0	613.3	612.5	618.7	627.0	641.5	654.5	665.9	674.3	682.7
15°	577.5	581.3	585.8	585.1	598.1	600.3	612.5	627.8	643.1	648.4	656.0
17.5°	552.3	558.4	563.0	565.3	569.1	577.5	588.9	600.3	620.2	620.9	640.8
20°	532.5	538.6	541.6	544.7	546.9	556.9	566.8	579.7	595.8	604.2	614.8
22.5°	519.5	522.5	524.8	527.1	530.2	535.5	547.7	562.2	572.9	582.0	588.9
25°	504.2	507.3	510.3	511.9	514.1	517.2	526.3	537.8	553.0	559.2	566.0
27.5°	493.5	493.5	495.1	495.1	498.1	501.2	508.0	518.7	530.9	538.6	547.7
30°	482.1	481.3	482.1	481.3	480.6	485.2	491.3	500.4	508.8	518.0	524.1
32.5°	470.7	469.9	469.9	470.7	467.6	469.9	473.0	481.3	490.5	495.1	501.9
35°	458.5	456.9	456.9	456.9	455.4	453.9	456.9	464.6	470.7	476.8	482.1
37.5°	446.3	444.0	444.0	442.4	440.9	438.6	438.6	444.7	453.1	455.4	462.3
40°	429.5	429.5	427.9	427.2	425.7	424.1	421.8	427.2	434.8	437.1	442.4
42.5°	412.7	410.4	409.6	409.6	409.6	407.3	405.8	409.6	414.2	418.0	421.1
45°	393.6	392.1	392.9	392.1	390.6	389.8	389.0	390.6	395.9	397.4	401.2
47.5°	373.0	372.3	372.3	371.5	370.7	371.5	368.4	372.3	373.8	375.3	378.4
50°	351.7	350.9	350.1	349.4	349.4	350.1	349.4	349.4	352.4	354.0	357.0
52.5°	330.3	328.0	328.0	327.3	327.3	325.7	327.3	328.0	329.5	331.1	332.6
55°	307.4	307.4	305.1	305.1	303.6	303.6	304.4	303.6	306.7	308.2	308.2
57.5°	285.3	282.2	283.0	281.5	280.0	279.2	279.2	280.7	282.2	282.2	283.8
60°	261.6	258.6	257.8	254.8	256.3	254.0	254.8	254.8	257.8	256.3	257.8
62.5°	238.0	234.2	231.9	230.4	230.4	231.1	229.6	228.8	230.4	231.9	234.9
65°	212.8	210.5	208.3	206.0	206.0	205.2	206.7	204.4	203.7	204.4	206.0
67.5°	186.9	184.6	182.3	180.0	180.8	178.5	177.0	179.3	177.7	178.5	180.0
70°	161.7	160.2	155.6	154.1	153.3	154.1	153.3	151.8	154.1	153.3	154.1
72.5°	136.5	135.0	132.7	128.9	128.9	128.2	127.4	127.4	126.6	126.6	126.6
75°	112.1	109.1	106.8	106.0	104.5	103.7	103.0	101.5	102.2	103.0	101.5
77.5°	87.0	83.1	82.4	82.4	80.1	80.1	80.9	80.1	79.3	79.3	79.3
80°	64.1	61.0	61.0	59.5	58.0	58.0	58.0	58.0	57.2	56.4	57.2
82.5°	41.2	40.4	39.7	39.7	41.2	38.1	39.7	38.9	38.1	38.1	37.4
85°	22.9	23.6	22.9	23.6	22.1	22.9	22.9	22.9	22.1	22.9	21.4
87.5°	8.4	8.4	8.4	9.2	9.2	9.2	9.2	9.2	9.9	9.2	9.2
90°	26.7	25.7	24.7	23.7	24.7	21.7	18.8	15.8	12.8	11.9	10.9
92.5°	66.2	76.1	97.8	137.4	183.8	203.6	152.2	99.8	68.2	59.3	50.4
95°	188.8	241.1	355.8	475.4	586.0	521.8	359.7	212.5	128.5	109.2	89.9
97.5°	486.2	616.7	817.3	931.9	901.3	673.0	400.2	229.3	146.3	125.0	103.8
100°	969.5	1085.1	1165.2	1130.6	935.9	632.5	372.6	226.3	157.1	137.8	118.6
102.5°	1242.2	1297.6	1280.8	1140.5	871.6	573.2	348.9	230.3	170.0	152.7	135.4
105°	1402.3	1383.6	1284.7	1078.2	794.6	526.7	340.0	238.2	184.8	169.5	154.2
107.5°	1457.7	1380.6	1225.4	989.2	726.4	493.1	338.0	251.0	203.6	189.2	174.9
110°	1438.9	1314.4	1132.5	906.2	670.0	475.4	342.9	267.8	223.3	209.5	195.7

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1370.7	1227.4	1040.6	834.1	632.5	465.5	352.8	284.6	244.1	230.8	217.4
115°	1278.8	1133.5	961.6	778.7	607.8	464.5	363.7	303.4	265.8	252.5	239.2
117.5°	1185.9	1052.5	900.3	742.2	591.0	465.5	377.5	323.2	285.6	273.2	260.9
120°	1105.9	987.3	853.9	714.5	580.1	469.4	393.3	341.9	306.4	294.0	281.7
122.5°	1042.6	934.9	817.3	691.8	573.2	476.3	408.2	361.7	327.1	313.8	300.4
125°	988.3	893.4	785.7	673.0	567.3	483.3	424.0	380.5	345.9	332.5	319.2
127.5°	941.8	854.8	757.0	655.2	564.3	491.2	436.8	397.3	363.7	350.4	337.0
130°	899.3	819.3	730.3	641.4	561.3	499.1	449.7	412.1	379.5	366.2	352.8
132.5°	858.8	785.7	705.6	628.5	560.3	505.0	461.5	425.0	393.3	380.5	367.6
135°	818.3	754.0	683.9	617.7	559.4	510.9	471.4	437.8	407.2	393.8	380.5
137.5°	779.7	722.4	663.1	607.8	557.4	514.9	479.3	446.7	417.0	404.6	392.3
140°	743.2	695.7	645.3	598.9	556.4	518.8	485.2	455.6	426.9	414.6	402.2
142.5°	709.6	670.0	628.5	591.0	554.4	521.8	491.2	462.5	434.8	423.4	412.1
145°	679.9	648.3	615.7	584.1	552.4	522.8	495.1	468.4	442.7	431.4	420.0
147.5°	658.2	631.5	604.8	577.1	549.5	522.8	498.1	473.4	449.7	439.8	429.9
150°	636.4	615.7	593.0	570.2	545.5	522.8	499.1	478.3	455.6	446.7	437.8
152.5°	618.7	600.9	582.1	562.3	540.6	519.8	501.0	481.3	462.5	454.1	445.7
155°	601.9	587.0	571.2	554.4	534.6	517.8	501.0	485.2	468.4	461.5	454.6
157.5°	585.1	573.2	559.4	545.5	529.7	514.9	502.0	487.2	473.4	468.0	462.5
160°	570.2	560.3	549.5	536.6	523.8	512.9	502.0	490.2	478.3	473.4	468.4
162.5°	555.4	546.5	537.6	527.7	517.8	509.0	501.0	491.2	481.3	477.4	473.4
165°	540.6	533.7	527.7	519.8	511.9	505.0	499.1	492.2	484.2	480.8	477.3
167.5°	527.7	523.8	518.8	511.9	506.0	501.0	498.1	492.2	486.2	483.8	481.3
170°	516.9	512.9	509.9	505.0	500.1	497.1	495.1	491.2	486.2	485.2	484.2
172.5°	507.0	504.0	502.0	498.1	495.1	494.1	494.1	491.2	487.2	486.7	486.2
175°	498.1	496.1	495.1	493.1	491.2	491.2	492.2	490.2	488.2	487.7	487.2
177.5°	492.2	491.2	490.2	489.2	488.2	489.2	491.2	489.2	488.2	488.2	488.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	787.2	787.2	787.2	787.2
2.5°	770.5	772.7	780.4	789.5
5°	755.2	761.3	772.0	786.5
7.5°	738.4	747.6	762.8	781.1
10°	719.3	732.3	751.4	774.3
12.5°	698.7	715.5	739.9	763.6
15°	685.8	702.6	724.7	750.6
17.5°	660.6	680.4	703.3	739.9
20°	634.7	656.8	686.5	723.2
22.5°	614.8	638.5	666.7	705.6
25°	591.2	615.6	646.1	686.5
27.5°	566.0	590.4	624.8	667.5
30°	546.9	570.6	603.4	649.2
32.5°	524.1	546.9	581.3	629.3
35°	498.1	524.1	556.9	605.7
37.5°	478.3	501.9	536.3	582.8
40°	456.9	477.5	511.1	556.9
42.5°	434.0	456.9	485.9	531.7
45°	412.7	429.5	459.2	502.7
47.5°	389.8	408.9	431.8	465.3
50°	365.4	381.4	406.6	429.5
52.5°	341.7	354.7	376.1	393.6
55°	316.6	329.5	345.6	356.2
57.5°	292.9	302.1	312.8	319.6
60°	263.9	273.1	280.0	286.8
62.5°	238.0	244.9	248.7	252.5
65°	211.3	215.1	217.4	220.5
67.5°	182.3	186.1	186.9	191.5
70°	155.6	156.4	157.9	160.2
72.5°	130.4	132.0	131.2	132.7
75°	104.5	106.0	104.5	106.0
77.5°	79.3	80.9	80.9	83.1
80°	57.2	58.0	58.7	58.7
82.5°	37.4	39.7	38.1	38.9
85°	21.4	22.1	22.1	22.9
87.5°	9.9	10.7	9.9	11.4
90°	8.9	5.9	4.0	2.0
92.5°	40.5	31.6	21.7	14.8
95°	64.2	47.4	36.6	33.6
97.5°	78.1	63.2	54.4	53.4
100°	94.9	81.0	74.1	73.1
102.5°	114.6	101.8	95.9	93.9
105°	135.4	123.5	117.6	114.6
107.5°	157.1	145.3	139.3	136.4
110°	178.9	168.0	163.1	160.1

TEST NUMBER: P1011687

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	200.6	189.7	184.8	181.8
115°	222.4	212.5	206.5	202.6
117.5°	242.1	233.2	228.3	223.3
120°	262.9	253.0	248.1	245.1
122.5°	282.6	271.8	266.8	263.9
125°	300.4	289.6	283.6	281.7
127.5°	316.2	305.4	298.5	295.5
130°	332.1	320.2	311.3	308.3
132.5°	346.9	332.1	322.2	318.2
135°	359.7	344.9	334.0	330.1
137.5°	371.6	355.8	344.9	341.0
140°	382.5	366.6	356.8	351.8
142.5°	392.3	378.5	367.6	363.7
145°	403.2	388.4	379.5	376.5
147.5°	413.1	400.2	391.4	389.4
150°	424.0	411.1	403.2	402.2
152.5°	433.8	423.0	415.1	415.1
155°	443.7	433.8	427.9	427.9
157.5°	452.6	443.7	438.8	437.8
160°	461.5	453.6	449.7	449.7
162.5°	467.4	461.5	458.6	458.6
165°	473.4	468.4	466.5	467.4
167.5°	478.3	474.4	473.4	474.4
170°	482.3	479.3	478.3	480.3
172.5°	485.2	483.3	483.3	484.2
175°	487.2	485.2	486.2	487.2
177.5°	488.2	487.2	488.2	489.2
180°	488.2	488.2	488.2	488.2

(END OF REPORT)