

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: P331947-830

Luminaire Tested: **S123DIP-S560D1195U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331947-830
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-S560D1195U830-4F0-1E-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: 6115.5 lumens
Efficiency: N/A
Efficacy: 123.8 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

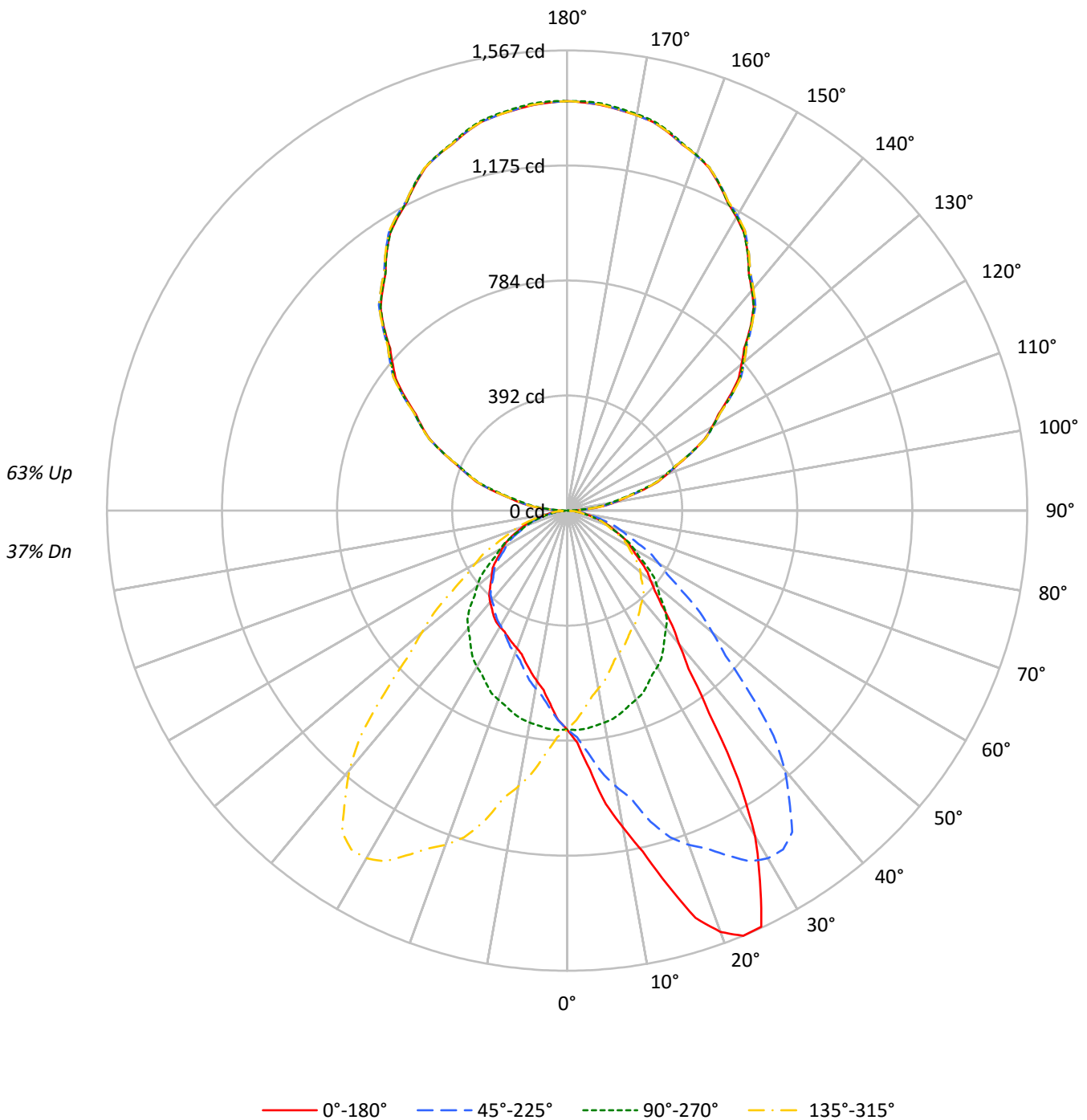
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

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°	8020	8020	8020	8020
5°	9564	8055	7138	8055
10°	11970	8014	6446	8014
15°	14683	7949	6002	7949
20°	17491	7848	5715	7848
25°	18573	7726	5651	7726
30°	15919	7636	5680	7636
35°	11071	7510	5740	7510
40°	8338	7360	5722	7360
45°	6925	7138	5649	7138
50°	6203	6687	5598	6687
55°	5799	6199	5527	6199
60°	5440	5690	5470	5690
65°	5112	5186	5295	5186
70°	4793	4614	5042	4614
75°	4292	4038	4625	4038
80°	3756	3310	3986	3310
85°	2939	2408	2680	2408



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.2
10°-20°	235.3	3.8
20°-30°	395.0	6.5
30°-40°	447.2	7.3
40°-50°	401.1	6.6
50°-60°	323.7	5.3
60°-70°	225.5	3.7
70°-80°	118.5	1.9
80°-90°	33.1	0.5
90°-100°	90.8	1.5
100°-110°	271.8	4.4
110°-120°	462.3	7.6
120°-130°	608.1	9.9
130°-140°	683.5	11.2
140°-150°	671.9	11.0
150°-160°	565.6	9.2
160°-170°	376.5	6.2
170°-180°	131.8	2.2
0°-30°	703.7	11.5
0°-40°	1151.0	18.8
0°-60°	1875.7	30.7
0°-90°	2252.9	36.8
90°-120°	825.0	13.5
90°-150°	2788.5	45.6
90°-180°	3863.0	63.2
0°-180°	6115.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	745	745	745	745	745	
5°	885	746	661	746	885	92
15°	1318	713	539	713	1318	380
25°	1564	650	476	650	1564	686
35°	842	572	437	572	842	547
45°	455	469	371	469	455	360
55°	309	330	294	330	309	277
65°	201	204	208	204	201	200
75°	103	97	111	97	103	110
85°	24	20	22	20	24	29
90°	33	1	33	1	33	17
95°	85	65	85	65	85	88
105°	261	246	261	246	261	277
115°	467	465	467	465	467	462
125°	674	681	674	681	674	602
135°	883	884	883	884	883	679
145°	1072	1072	1072	1072	1072	669
155°	1225	1228	1225	1228	1225	564
165°	1333	1337	1333	1337	1333	376
175°	1385	1391	1385	1391	1385	132
180°	1394	1394	1394	1394	1394	



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	790.7	790.1	788.7	789.9	787.5	784.4	784.1	781.2	772.8	772.2	770.0
5°	885.1	882.2	881.9	881.6	876.5	869.6	856.6	855.5	838.2	829.5	819.1
7.5°	1007.5	1009.0	1003.7	999.1	983.6	973.5	959.5	941.7	920.4	898.8	884.4
10°	1095.2	1107.1	1092.3	1082.2	1072.9	1055.2	1034.6	1009.0	983.4	953.4	930.7
12.5°	1189.4	1195.2	1192.3	1182.7	1168.2	1141.2	1104.8	1076.6	1052.9	1003.1	982.9
15°	1317.6	1339.6	1325.6	1293.1	1293.8	1268.2	1220.5	1168.2	1140.4	1096.6	1037.1
17.5°	1454.2	1457.0	1451.0	1423.9	1405.8	1370.6	1326.6	1276.5	1220.1	1167.3	1104.1
20°	1527.0	1524.8	1512.2	1498.1	1467.1	1439.6	1391.6	1335.7	1263.5	1211.4	1142.6
22.5°	1567.4	1563.8	1557.8	1546.1	1520.2	1490.7	1447.7	1386.5	1317.8	1246.1	1166.5
25°	1563.8	1568.5	1569.2	1565.9	1557.0	1539.3	1505.3	1456.6	1388.0	1296.0	1213.0
27.5°	1422.3	1428.9	1448.2	1465.4	1484.5	1503.9	1501.4	1477.2	1426.4	1346.9	1245.4
30°	1280.8	1266.3	1302.1	1347.2	1377.9	1432.0	1462.4	1464.1	1435.7	1367.4	1268.5
32.5°	1084.4	1100.3	1116.1	1171.6	1238.7	1299.5	1359.8	1408.4	1414.0	1368.6	1282.0
35°	842.5	862.4	891.3	920.2	992.4	1054.4	1160.6	1253.0	1326.6	1336.3	1283.3
37.5°	678.9	688.8	707.0	735.9	783.2	856.9	939.0	1055.7	1162.4	1241.8	1245.3
40°	593.4	596.3	616.9	638.9	677.2	737.8	811.9	915.1	1042.9	1153.8	1200.0
42.5°	529.3	535.7	544.4	565.6	596.1	641.7	710.5	795.9	912.9	1040.5	1130.9
45°	454.9	462.0	467.5	481.5	503.2	533.9	581.9	659.9	749.0	880.8	1002.5
47.5°	405.6	406.1	410.2	420.8	435.5	458.6	492.6	542.6	624.5	731.3	856.3
50°	370.4	376.2	377.6	385.9	397.5	414.4	442.6	485.1	552.3	646.2	761.0
52.5°	345.5	347.2	351.3	357.3	367.4	380.6	405.0	438.4	491.1	571.1	676.7
55°	309.0	309.0	313.0	317.6	323.5	335.4	351.6	376.2	416.2	478.3	565.7
57.5°	275.2	277.0	279.8	281.3	286.2	294.1	307.6	326.3	356.2	404.0	473.4
60°	252.7	255.9	255.6	258.4	262.8	268.9	280.5	295.7	322.3	360.6	419.1
62.5°	233.1	232.8	232.8	236.2	240.5	246.4	253.9	267.0	289.7	323.7	373.4
65°	200.7	200.0	202.6	204.7	206.1	210.5	216.2	227.8	243.0	268.2	306.8
67.5°	172.0	169.8	171.3	172.0	174.5	177.9	183.2	190.4	202.5	222.7	251.8
70°	152.3	150.5	150.1	150.9	153.1	155.6	159.6	166.5	177.6	193.9	215.2
72.5°	132.1	130.9	130.8	132.4	133.5	135.1	137.9	144.2	153.1	165.2	185.1
75°	103.2	103.2	103.2	103.6	104.7	106.1	108.3	111.5	118.4	127.1	140.4
77.5°	77.4	77.3	76.9	76.8	78.4	79.1	79.6	82.6	86.4	92.3	102.0
80°	60.6	58.8	59.6	60.6	61.4	61.7	62.8	63.5	66.8	70.0	76.9
82.5°	45.1	43.5	43.6	45.3	45.5	45.8	46.9	48.0	49.2	52.1	55.8
85°	23.8	23.8	24.2	24.2	24.5	24.2	25.3	25.6	25.6	27.4	29.6
87.5°	15.3	14.5	14.8	15.0	14.5	14.7	14.8	14.9	15.0	15.1	14.7
90°	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3	27.2	26.3	23.1
92.5°	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6	42.8	42.0	40.2
95°	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9	82.0	81.1	79.1
97.5°	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0	127.9	126.8	125.4
100°	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4	161.7	161.0	159.8
102.5°	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0	200.3	199.5	197.9
105°	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4	258.4	258.4	256.3
107.5°	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7	319.9	319.1	318.2
110°	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2	361.3	360.3	359.8



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8	402.7	401.4	401.3
115°	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0	466.7	466.6	467.0
117.5°	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8	530.8	530.9	531.6
120°	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3	573.6	573.8	575.0
122.5°	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4	617.0	617.6	618.3
125°	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3	681.3	682.3	682.8
127.5°	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5	744.9	746.2	746.8
130°	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4	786.5	787.4	788.2
132.5°	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2	827.4	828.6	829.1
135°	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3	888.3	889.2	889.5
137.5°	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0	948.0	949.0	948.4
140°	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2	986.5	986.7	986.5
142.5°	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0	1023.2	1023.5	1023.0
145°	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1	1077.3	1077.6	1076.9
147.5°	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7	1159.7	1159.7	1159.2
152.5°	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5	1188.2	1187.8	1187.5
155°	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7	1229.7	1228.7	1228.5
157.5°	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9	1265.9	1264.9	1264.7
160°	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2	1288.0	1286.8	1286.8
162.5°	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2	1309.0	1307.8	1307.6
165°	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8	1335.3	1333.9	1333.9
167.5°	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3	1355.1
170°	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7	1366.7
172.5°	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4	1377.9	1376.4	1376.4
175°	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3	1387.9	1386.4	1386.4
177.5°	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8	1392.6	1391.5	1391.5
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	768.2	765.9	763.6	759.5	756.0	751.1	749.7	748.0	742.8	738.1	734.7
5°	815.1	806.4	793.8	782.2	772.9	760.3	753.0	745.5	734.6	724.9	716.9
7.5°	864.2	847.2	827.6	806.3	786.6	767.4	752.1	738.4	723.2	708.8	697.7
10°	903.2	878.6	851.2	821.6	796.4	771.8	751.2	733.2	713.7	696.7	682.6
12.5°	947.6	911.3	873.5	837.4	807.6	773.5	748.7	725.7	703.6	683.2	667.3
15°	1000.3	954.1	909.4	859.9	814.4	771.8	742.2	713.3	687.7	666.8	646.5
17.5°	1048.2	995.9	936.9	876.8	821.9	771.4	729.9	697.3	665.2	639.6	619.4
20°	1075.3	1015.8	949.0	886.6	826.0	769.6	724.2	685.1	650.5	623.4	600.7
22.5°	1098.8	1029.1	960.0	893.2	825.7	765.0	713.5	673.4	635.7	609.3	585.1
25°	1123.0	1039.6	970.3	892.0	816.5	753.8	696.0	650.5	612.9	581.9	557.0
27.5°	1143.9	1039.0	956.7	872.4	802.3	739.3	677.7	628.9	589.0	555.3	530.0
30°	1157.7	1040.4	942.5	859.1	788.4	723.4	663.5	614.4	572.5	538.2	514.4
32.5°	1166.4	1039.5	929.5	840.7	766.5	709.0	648.2	597.4	554.3	520.7	497.7
35°	1171.4	1033.1	907.2	802.5	731.0	675.0	624.2	571.5	526.3	494.9	468.9
37.5°	1161.3	1019.8	881.2	765.6	687.4	632.4	589.5	544.6	501.4	466.8	444.4
40°	1145.4	1011.2	860.9	739.7	657.3	604.3	567.9	523.8	481.2	448.4	427.4
42.5°	1115.1	993.5	838.8	710.8	626.1	573.1	539.5	502.8	462.4	431.6	410.7
45°	1041.1	955.2	805.4	667.5	580.1	525.3	495.7	468.9	432.4	402.5	384.5
47.5°	938.4	897.5	757.1	621.8	532.1	479.3	448.5	427.0	400.3	376.2	358.8
50°	867.1	850.2	724.5	590.6	499.9	448.4	418.8	399.3	380.1	355.9	340.1
52.5°	784.8	795.2	686.4	558.3	467.3	416.6	388.7	373.2	355.9	336.0	322.2
55°	668.9	706.8	620.6	504.0	418.8	370.4	344.0	330.3	320.2	305.4	293.5
57.5°	560.4	608.6	549.3	448.0	371.0	329.3	304.1	289.1	282.6	274.8	265.5
60°	496.0	543.7	498.5	410.5	338.9	299.3	276.9	264.3	257.8	252.3	244.4
62.5°	438.6	486.7	448.8	372.3	307.5	270.7	251.2	238.8	233.8	230.9	224.1
65°	359.6	401.1	375.8	313.0	262.4	230.0	212.3	203.6	198.9	197.8	193.5
67.5°	292.7	324.2	305.9	259.6	219.8	191.7	176.7	169.4	165.8	165.4	162.1
70°	248.7	278.3	264.3	222.3	188.0	166.1	153.1	146.6	144.4	144.0	142.2
72.5°	214.6	235.3	224.1	189.2	162.7	142.7	133.1	126.3	123.9	124.4	123.2
75°	158.8	174.4	167.9	143.6	122.3	109.3	101.4	97.1	94.9	96.0	94.5
77.5°	114.3	124.1	118.3	101.5	88.4	79.0	73.1	70.5	68.5	68.4	67.8
80°	86.2	92.1	88.8	78.7	67.9	59.9	55.2	53.4	52.3	52.0	51.7
82.5°	61.5	66.4	62.5	55.6	48.3	43.5	40.8	38.5	37.6	37.8	37.5
85°	31.0	32.9	31.4	27.1	24.2	22.1	20.5	19.5	18.8	19.1	18.4
87.5°	14.7	14.3	12.8	11.1	10.1	8.7	8.2	7.2	7.1	7.5	7.7
90°	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1	3.5	5.9	8.4
92.5°	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5	28.2	29.8	31.5
95°	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7	66.4	68.1	69.7
97.5°	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8	116.0	117.3	118.6
100°	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9	150.4	151.8	153.4
102.5°	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3	189.3	190.1	191.0
105°	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4	246.9	247.4	247.9
107.5°	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9	314.1	314.4	314.7
110°	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9	356.4	356.8	357.4



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7	400.0	400.3	400.6
115°	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4	466.2	466.8	467.6
117.5°	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6	532.1	532.5	533.0
120°	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8	574.2	575.7	577.1
122.5°	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7	616.7	617.8	618.9
125°	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2	681.9	682.6	683.3
127.5°	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6	743.2	744.7	746.3
130°	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9	783.8	785.8	787.8
132.5°	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2	824.2	826.1	828.0
135°	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7	885.2	886.6	888.2
137.5°	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8	941.9	943.1	944.3
140°	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1	981.4	982.6	983.8
142.5°	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1	1017.3	1018.5	1019.7
145°	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1	1072.6	1073.1	1073.6
147.5°	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2	1122.1	1122.9	1123.8
150°	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4	1155.8	1156.3	1156.8
152.5°	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4	1184.1	1184.8	1185.4
155°	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3	1265.0	1264.7	1264.4
160°	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9	1288.5	1288.0	1287.5
162.5°	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9	1309.3	1308.6	1308.0
165°	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2	1336.4	1335.7	1334.9
167.5°	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9	1357.8	1356.9	1355.9
170°	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1	1370.1	1369.1	1368.2
172.5°	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7	1379.8	1378.8	1377.8
175°	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8	1389.9	1388.8	1387.9
177.5°	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0	1394.2	1393.5	1392.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	732.6	730.7	727.7	723.4	719.9	714.4	714.4	715.3	715.3	715.0	714.4
5°	710.4	705.0	698.5	691.0	683.0	675.0	673.6	670.7	668.5	667.1	665.3
7.5°	686.9	677.4	667.9	657.3	647.6	639.6	634.0	629.4	626.4	623.3	620.9
10°	671.1	659.1	648.0	636.8	624.5	614.7	608.6	604.3	601.1	598.1	596.7
12.5°	652.3	638.7	626.3	615.7	602.3	592.2	586.4	584.4	580.5	574.5	571.3
15°	624.9	612.3	597.5	581.2	574.7	562.4	555.5	552.3	550.2	545.4	544.0
17.5°	601.4	584.8	568.3	556.1	544.0	534.1	530.3	526.2	523.4	519.5	518.4
20°	582.7	567.9	552.7	539.7	527.1	516.2	512.9	510.1	507.2	505.4	504.0
22.5°	563.5	548.7	536.2	524.1	510.6	503.5	499.9	496.8	494.7	493.5	492.1
25°	536.8	523.8	509.7	498.9	488.0	483.3	481.2	479.4	478.0	476.2	475.8
27.5°	512.8	498.7	487.3	477.1	469.4	465.4	463.4	462.5	462.8	463.4	463.8
30°	494.9	481.9	472.5	463.8	456.7	453.1	452.7	452.7	454.1	454.5	455.2
32.5°	478.4	467.8	458.4	450.0	444.5	442.1	443.5	443.5	444.6	445.5	446.9
35°	454.5	445.1	437.9	430.6	425.9	427.1	427.7	428.5	430.3	432.4	433.9
37.5°	431.6	423.5	415.9	410.3	408.1	410.1	411.8	413.3	415.5	417.1	418.5
40°	415.1	409.0	401.8	396.7	397.5	398.5	400.0	401.8	403.6	404.6	406.1
42.5°	399.8	393.4	388.0	383.7	384.7	386.2	387.0	388.0	390.0	392.0	392.9
45°	376.5	371.5	366.4	363.9	364.6	365.3	366.1	367.1	368.9	370.4	370.7
47.5°	350.3	346.8	343.4	340.9	342.0	341.8	342.7	345.1	345.6	346.5	348.5
50°	333.6	330.3	326.3	325.6	325.6	325.6	325.9	328.9	328.9	330.3	331.8
52.5°	315.1	313.0	310.5	309.2	308.6	308.6	310.1	311.5	312.1	314.1	315.6
55°	287.7	285.5	283.4	282.3	281.5	282.3	285.2	285.9	287.7	288.8	289.8
57.5°	259.2	257.5	255.8	255.2	255.1	256.0	257.6	259.8	260.2	263.5	265.1
60°	240.4	237.9	236.5	236.5	235.7	238.9	238.3	241.9	242.6	244.8	247.3
62.5°	221.0	217.6	217.1	217.1	218.1	219.0	220.1	221.7	223.6	226.3	228.2
65°	189.9	188.0	190.6	190.2	189.5	191.7	191.7	193.5	195.7	198.2	202.2
67.5°	160.3	159.4	159.7	159.7	160.7	161.9	163.0	164.6	167.1	169.8	172.4
70°	140.4	141.5	139.7	141.2	142.2	142.6	143.3	145.4	148.4	150.1	153.1
72.5°	121.1	121.0	121.2	121.8	122.9	123.6	124.2	126.7	129.9	131.4	133.7
75°	93.1	92.7	93.9	93.9	95.7	96.4	97.1	98.2	101.0	103.2	105.1
77.5°	68.1	68.4	68.2	69.5	69.0	69.1	71.4	72.4	72.7	77.0	77.9
80°	51.3	52.0	52.3	52.7	53.1	52.3	54.9	56.0	56.0	58.4	60.3
82.5°	36.9	37.2	38.2	38.5	38.6	39.3	39.6	40.3	41.2	42.3	44.7
85°	18.4	19.5	19.9	19.5	19.9	19.1	20.2	20.5	20.9	20.9	20.9
87.5°	7.9	8.8	9.1	10.1	10.4	11.3	11.5	11.1	11.3	12.3	11.4
90°	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3	29.2	30.2	30.9
92.5°	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6	44.4	45.1	45.4
95°	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9	84.0	84.9	85.4
97.5°	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0	130.2	131.3	131.8
100°	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4	163.2	163.9	164.5
102.5°	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0	201.7	202.5	202.7
105°	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4	258.4	258.4	258.7
107.5°	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7	321.5	322.3	322.4
110°	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2	363.3	364.2	364.4



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8	405.0	406.1	406.7
115°	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0	467.2	467.5	467.5
117.5°	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8	530.7	530.7	530.4
120°	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3	573.2	572.9	572.5
122.5°	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4	615.8	615.1	614.4
125°	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3	679.4	678.3	677.4
127.5°	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5	742.2	740.7	739.5
130°	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4	784.5	783.5	782.1
132.5°	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2	825.1	823.9	822.7
135°	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3	886.3	885.3	884.6
137.5°	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0	945.9	944.9	944.0
140°	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2	986.0	985.7	984.8
142.5°	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0	1022.8	1022.6	1021.7
145°	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1	1076.9	1076.7	1076.0
147.5°	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7	1159.7	1159.7	1159.0
152.5°	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5	1188.9	1189.3	1188.9
155°	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7	1231.6	1232.7	1232.3
157.5°	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9	1267.9	1268.9	1268.8
160°	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2	1290.4	1291.7	1291.8
162.5°	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2	1311.5	1312.7	1312.5
165°	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8	1338.2	1339.7	1339.5
167.5°	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3
170°	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6
172.5°	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4	1380.9	1382.4	1382.3
175°	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3	1390.8	1392.2	1392.1
177.5°	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8	1395.0	1396.1	1396.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	712.5	712.2	714.2	712.8	714.2	712.2	712.5	714.4	715.0	715.3	715.3
5°	663.2	664.2	660.6	660.6	660.6	664.2	663.2	665.3	667.1	668.5	670.7
7.5°	619.3	617.6	617.8	615.9	617.8	617.6	619.3	620.9	623.3	626.4	629.4
10°	592.4	590.2	589.5	589.8	589.5	590.2	592.4	596.7	598.1	601.1	604.3
12.5°	570.1	569.7	565.0	565.1	565.0	569.7	570.1	571.3	574.5	580.5	584.4
15°	544.0	537.2	536.4	538.6	536.4	537.2	544.0	544.0	545.4	550.2	552.3
17.5°	517.8	514.2	514.4	513.3	514.4	514.2	517.8	518.4	519.5	523.4	526.2
20°	504.0	501.8	501.4	498.9	501.4	501.8	504.0	504.0	505.4	507.2	510.1
22.5°	491.3	490.5	490.7	488.0	490.7	490.5	491.3	492.1	493.5	494.7	496.8
25°	475.4	477.2	475.8	475.8	475.8	477.2	475.4	475.8	476.2	478.0	479.4
27.5°	464.8	464.7	463.9	463.9	463.9	464.7	464.8	463.8	463.4	462.8	462.5
30°	456.7	456.3	457.0	457.0	457.0	456.3	456.7	455.2	454.5	454.1	452.7
32.5°	448.6	449.0	449.2	449.5	449.2	449.0	448.6	446.9	445.5	444.6	443.5
35°	436.1	436.4	437.5	436.8	437.5	436.4	436.1	433.9	432.4	430.3	428.5
37.5°	419.1	420.8	420.5	421.0	420.5	420.8	419.1	418.5	417.1	415.5	413.3
40°	406.5	407.6	407.2	407.2	407.2	407.6	406.5	406.1	404.6	403.6	401.8
42.5°	393.5	394.3	393.3	392.8	393.3	394.3	393.5	392.9	392.0	390.0	388.0
45°	372.2	371.5	372.6	371.1	372.6	371.5	372.2	370.7	370.4	368.9	367.1
47.5°	348.4	349.1	349.4	350.4	349.4	349.1	348.4	348.5	346.5	345.6	345.1
50°	332.4	334.6	334.6	334.3	334.6	334.6	332.4	331.8	330.3	328.9	328.9
52.5°	316.9	317.9	319.3	319.2	319.3	317.9	316.9	315.6	314.1	312.1	311.5
55°	292.8	293.5	294.2	294.5	294.2	293.5	292.8	289.8	288.8	287.7	285.9
57.5°	267.8	267.5	269.2	269.8	269.2	267.5	267.8	265.1	263.5	260.2	259.8
60°	250.2	250.2	253.1	254.1	253.1	250.2	250.2	247.3	244.8	242.6	241.9
62.5°	231.4	232.5	235.4	233.9	235.4	232.5	231.4	228.2	226.3	223.6	221.7
65°	204.0	206.9	206.5	207.9	206.5	206.9	204.0	202.2	198.2	195.7	193.5
67.5°	175.3	177.1	179.7	179.9	179.7	177.1	175.3	172.4	169.8	167.1	164.6
70°	156.0	157.8	159.2	160.2	159.2	157.8	156.0	153.1	150.1	148.4	145.4
72.5°	137.1	138.1	141.6	140.1	141.6	138.1	137.1	133.7	131.4	129.9	126.7
75°	107.5	110.1	112.3	111.2	112.3	110.1	107.5	105.1	103.2	101.0	98.2
77.5°	79.6	82.1	83.1	82.2	83.1	82.1	79.6	77.9	77.0	72.7	72.4
80°	62.8	62.5	64.7	64.3	64.7	62.5	62.8	60.3	58.4	56.0	56.0
82.5°	46.1	45.7	46.8	46.9	46.8	45.7	46.1	44.7	42.3	41.2	40.3
85°	22.3	23.5	22.1	21.7	22.1	23.5	22.3	20.9	20.9	20.9	20.5
87.5°	11.5	11.6	11.4	11.2	11.4	11.6	11.5	11.4	12.3	11.3	11.1
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3
92.5°	45.1	44.9	44.5	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6
95°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9
97.5°	131.7	131.6	131.5	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0
100°	165.0	165.5	166.0	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4
102.5°	202.6	202.6	202.5	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0
105°	259.2	259.7	260.1	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4
107.5°	322.2	321.9	321.6	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7
110°	363.9	363.4	363.0	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	406.6	406.5	406.4	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8
115°	467.2	467.0	466.7	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0
117.5°	529.7	529.0	528.3	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8
120°	572.0	571.6	571.1	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3
122.5°	613.8	613.1	612.4	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4
125°	676.5	675.4	674.5	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3
127.5°	738.4	737.3	736.1	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5
130°	780.4	778.7	777.0	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4
132.5°	821.3	820.0	818.7	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2
135°	884.1	883.6	883.2	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3
137.5°	943.0	942.2	941.2	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0
140°	983.1	981.4	979.7	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2
142.5°	1020.4	1019.1	1017.9	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0
145°	1075.1	1074.0	1073.1	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1
147.5°	1126.0	1124.5	1123.0	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2
150°	1157.5	1156.1	1154.6	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7
152.5°	1187.6	1186.4	1185.1	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5
155°	1230.6	1228.9	1227.2	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7
157.5°	1267.4	1266.0	1264.7	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9
160°	1290.8	1289.8	1288.8	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2
162.5°	1310.9	1309.4	1307.8	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2
165°	1337.8	1336.1	1334.5	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8
167.5°	1359.8	1358.3	1356.8	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3
170°	1371.9	1370.1	1368.4	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1
172.5°	1380.5	1378.8	1377.1	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4
175°	1390.4	1388.7	1387.0	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3
177.5°	1394.7	1393.3	1391.9	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	714.4	714.4	719.9	723.4	727.7	730.7	732.6	734.7	738.1	742.8	748.0
5°	673.6	675.0	683.0	691.0	698.5	705.0	710.4	716.9	724.9	734.6	745.5
7.5°	634.0	639.6	647.6	657.3	667.9	677.4	686.9	697.7	708.8	723.2	738.4
10°	608.6	614.7	624.5	636.8	648.0	659.1	671.1	682.6	696.7	713.7	733.2
12.5°	586.4	592.2	602.3	615.7	626.3	638.7	652.3	667.3	683.2	703.6	725.7
15°	555.5	562.4	574.7	581.2	597.5	612.3	624.9	646.5	666.8	687.7	713.3
17.5°	530.3	534.1	544.0	556.1	568.3	584.8	601.4	619.4	639.6	665.2	697.3
20°	512.9	516.2	527.1	539.7	552.7	567.9	582.7	600.7	623.4	650.5	685.1
22.5°	499.9	503.5	510.6	524.1	536.2	548.7	563.5	585.1	609.3	635.7	673.4
25°	481.2	483.3	488.0	498.9	509.7	523.8	536.8	557.0	581.9	612.9	650.5
27.5°	463.4	465.4	469.4	477.1	487.3	498.7	512.8	530.0	555.3	589.0	628.9
30°	452.7	453.1	456.7	463.8	472.5	481.9	494.9	514.4	538.2	572.5	614.4
32.5°	443.5	442.1	444.5	450.0	458.4	467.8	478.4	497.7	520.7	554.3	597.4
35°	427.7	427.1	425.9	430.6	437.9	445.1	454.5	468.9	494.9	526.3	571.5
37.5°	411.8	410.1	408.1	410.3	415.9	423.5	431.6	444.4	466.8	501.4	544.6
40°	400.0	398.5	397.5	396.7	401.8	409.0	415.1	427.4	448.4	481.2	523.8
42.5°	387.0	386.2	384.7	383.7	388.0	393.4	399.8	410.7	431.6	462.4	502.8
45°	366.1	365.3	364.6	363.9	366.4	371.5	376.5	384.5	402.5	432.4	468.9
47.5°	342.7	341.8	342.0	340.9	343.4	346.8	350.3	358.8	376.2	400.3	427.0
50°	325.9	325.6	325.6	325.6	326.3	330.3	333.6	340.1	355.9	380.1	399.3
52.5°	310.1	308.6	308.6	309.2	310.5	313.0	315.1	322.2	336.0	355.9	373.2
55°	285.2	282.3	281.5	282.3	283.4	285.5	287.7	293.5	305.4	320.2	330.3
57.5°	257.6	256.0	255.1	255.2	255.8	257.5	259.2	265.5	274.8	282.6	289.1
60°	238.3	238.9	235.7	236.5	236.5	237.9	240.4	244.4	252.3	257.8	264.3
62.5°	220.1	219.0	218.1	217.1	217.1	217.6	221.0	224.1	230.9	233.8	238.8
65°	191.7	191.7	189.5	190.2	190.6	188.0	189.9	193.5	197.8	198.9	203.6
67.5°	163.0	161.9	160.7	159.7	159.7	159.4	160.3	162.1	165.4	165.8	169.4
70°	143.3	142.6	142.2	141.2	139.7	141.5	140.4	142.2	144.0	144.4	146.6
72.5°	124.2	123.6	122.9	121.8	121.2	121.0	121.1	123.2	124.4	123.9	126.3
75°	97.1	96.4	95.7	93.9	93.9	92.7	93.1	94.5	96.0	94.9	97.1
77.5°	71.4	69.1	69.0	69.5	68.2	68.4	68.1	67.8	68.4	68.5	70.5
80°	54.9	52.3	53.1	52.7	52.3	52.0	51.3	51.7	52.0	52.3	53.4
82.5°	39.6	39.3	38.6	38.5	38.2	37.2	36.9	37.5	37.8	37.6	38.5
85°	20.2	19.1	19.9	19.5	19.9	19.5	18.4	18.4	19.1	18.8	19.5
87.5°	11.5	11.3	10.4	10.1	9.1	8.8	7.9	7.7	7.5	7.1	7.2
90°	27.2	26.3	23.1	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1
92.5°	42.8	42.0	40.2	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5
95°	82.0	81.1	79.1	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7
97.5°	127.9	126.8	125.4	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8
100°	161.7	161.0	159.8	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9
102.5°	200.3	199.5	197.9	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3
105°	258.4	258.4	256.3	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4
107.5°	319.9	319.1	318.2	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9
110°	361.3	360.3	359.8	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	402.7	401.4	401.3	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7
115°	466.7	466.6	467.0	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4
117.5°	530.8	530.9	531.6	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6
120°	573.6	573.8	575.0	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8
122.5°	617.0	617.6	618.3	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7
125°	681.3	682.3	682.8	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2
127.5°	744.9	746.2	746.8	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6
130°	786.5	787.4	788.2	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9
132.5°	827.4	828.6	829.1	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2
135°	888.3	889.2	889.5	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7
137.5°	948.0	949.0	948.4	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8
140°	986.5	986.7	986.5	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1
142.5°	1023.2	1023.5	1023.0	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1
145°	1077.3	1077.6	1076.9	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1
147.5°	1128.2	1128.2	1127.5	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2
150°	1159.7	1159.7	1159.2	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4
152.5°	1188.2	1187.8	1187.5	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4
155°	1229.7	1228.7	1228.5	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1265.9	1264.9	1264.7	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3
160°	1288.0	1286.8	1286.8	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9
162.5°	1309.0	1307.8	1307.6	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9
165°	1335.3	1333.9	1333.9	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2
167.5°	1356.8	1355.3	1355.1	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9
170°	1368.4	1366.7	1366.7	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1
172.5°	1377.9	1376.4	1376.4	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7
175°	1387.9	1386.4	1386.4	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8
177.5°	1392.6	1391.5	1391.5	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	749.7	751.1	756.0	759.5	763.6	765.9	768.2	770.0	772.2	772.8	781.2
5°	753.0	760.3	772.9	782.2	793.8	806.4	815.1	819.1	829.5	838.2	855.5
7.5°	752.1	767.4	786.6	806.3	827.6	847.2	864.2	884.4	898.8	920.4	941.7
10°	751.2	771.8	796.4	821.6	851.2	878.6	903.2	930.7	953.4	983.4	1009.0
12.5°	748.7	773.5	807.6	837.4	873.5	911.3	947.6	982.9	1003.1	1052.9	1076.6
15°	742.2	771.8	814.4	859.9	909.4	954.1	1000.3	1037.1	1096.6	1140.4	1168.2
17.5°	729.9	771.4	821.9	876.8	936.9	995.9	1048.2	1104.1	1167.3	1220.1	1276.5
20°	724.2	769.6	826.0	886.6	949.0	1015.8	1075.3	1142.6	1211.4	1263.5	1335.7
22.5°	713.5	765.0	825.7	893.2	960.0	1029.1	1098.8	1166.5	1246.1	1317.8	1386.5
25°	696.0	753.8	816.5	892.0	970.3	1039.6	1123.0	1213.0	1296.0	1388.0	1456.6
27.5°	677.7	739.3	802.3	872.4	956.7	1039.0	1143.9	1245.4	1346.9	1426.4	1477.2
30°	663.5	723.4	788.4	859.1	942.5	1040.4	1157.7	1268.5	1367.4	1435.7	1464.1
32.5°	648.2	709.0	766.5	840.7	929.5	1039.5	1166.4	1282.0	1368.6	1414.0	1408.4
35°	624.2	675.0	731.0	802.5	907.2	1033.1	1171.4	1283.3	1336.3	1326.6	1253.0
37.5°	589.5	632.4	687.4	765.6	881.2	1019.8	1161.3	1245.3	1241.8	1162.4	1055.7
40°	567.9	604.3	657.3	739.7	860.9	1011.2	1145.4	1200.0	1153.8	1042.9	915.1
42.5°	539.5	573.1	626.1	710.8	838.8	993.5	1115.1	1130.9	1040.5	912.9	795.9
45°	495.7	525.3	580.1	667.5	805.4	955.2	1041.1	1002.5	880.8	749.0	659.9
47.5°	448.5	479.3	532.1	621.8	757.1	897.5	938.4	856.3	731.3	624.5	542.6
50°	418.8	448.4	499.9	590.6	724.5	850.2	867.1	761.0	646.2	552.3	485.1
52.5°	388.7	416.6	467.3	558.3	686.4	795.2	784.8	676.7	571.1	491.1	438.4
55°	344.0	370.4	418.8	504.0	620.6	706.8	668.9	565.7	478.3	416.2	376.2
57.5°	304.1	329.3	371.0	448.0	549.3	608.6	560.4	473.4	404.0	356.2	326.3
60°	276.9	299.3	338.9	410.5	498.5	543.7	496.0	419.1	360.6	322.3	295.7
62.5°	251.2	270.7	307.5	372.3	448.8	486.7	438.6	373.4	323.7	289.7	267.0
65°	212.3	230.0	262.4	313.0	375.8	401.1	359.6	306.8	268.2	243.0	227.8
67.5°	176.7	191.7	219.8	259.6	305.9	324.2	292.7	251.8	222.7	202.5	190.4
70°	153.1	166.1	188.0	222.3	264.3	278.3	248.7	215.2	193.9	177.6	166.5
72.5°	133.1	142.7	162.7	189.2	224.1	235.3	214.6	185.1	165.2	153.1	144.2
75°	101.4	109.3	122.3	143.6	167.9	174.4	158.8	140.4	127.1	118.4	111.5
77.5°	73.1	79.0	88.4	101.5	118.3	124.1	114.3	102.0	92.3	86.4	82.6
80°	55.2	59.9	67.9	78.7	88.8	92.1	86.2	76.9	70.0	66.8	63.5
82.5°	40.8	43.5	48.3	55.6	62.5	66.4	61.5	55.8	52.1	49.2	48.0
85°	20.5	22.1	24.2	27.1	31.4	32.9	31.0	29.6	27.4	25.6	25.6
87.5°	8.2	8.7	10.1	11.1	12.8	14.3	14.7	14.7	15.1	15.0	14.9
90°	3.5	5.9	8.4	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3
92.5°	28.2	29.8	31.5	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6
95°	66.4	68.1	69.7	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9
97.5°	116.0	117.3	118.6	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0
100°	150.4	151.8	153.4	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4
102.5°	189.3	190.1	191.0	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0
105°	246.9	247.4	247.9	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4
107.5°	314.1	314.4	314.7	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7
110°	356.4	356.8	357.4	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.0	400.3	400.6	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8
115°	466.2	466.8	467.6	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0
117.5°	532.1	532.5	533.0	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8
120°	574.2	575.7	577.1	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3
122.5°	616.7	617.8	618.9	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4
125°	681.9	682.6	683.3	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3
127.5°	743.2	744.7	746.3	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5
130°	783.8	785.8	787.8	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4
132.5°	824.2	826.1	828.0	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2
135°	885.2	886.6	888.2	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3
137.5°	941.9	943.1	944.3	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0
140°	981.4	982.6	983.8	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2
142.5°	1017.3	1018.5	1019.7	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0
145°	1072.6	1073.1	1073.6	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1
147.5°	1122.1	1122.9	1123.8	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2
150°	1155.8	1156.3	1156.8	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7
152.5°	1184.1	1184.8	1185.4	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5
155°	1227.7	1227.7	1227.7	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7
157.5°	1265.0	1264.7	1264.4	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9
160°	1288.5	1288.0	1287.5	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2
162.5°	1309.3	1308.6	1308.0	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2
165°	1336.4	1335.7	1334.9	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8
167.5°	1357.8	1356.9	1355.9	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3
170°	1370.1	1369.1	1368.2	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1
172.5°	1379.8	1378.8	1377.8	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4
175°	1389.9	1388.8	1387.9	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3
177.5°	1394.2	1393.5	1392.6	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	784.1	784.4	787.5	789.9	788.7	790.1	790.7
5°	856.6	869.6	876.5	881.6	881.9	882.2	885.1
7.5°	959.5	973.5	983.6	999.1	1003.7	1009.0	1007.5
10°	1034.6	1055.2	1072.9	1082.2	1092.3	1107.1	1095.2
12.5°	1104.8	1141.2	1168.2	1182.7	1192.3	1195.2	1189.4
15°	1220.5	1268.2	1293.8	1293.1	1325.6	1339.6	1317.6
17.5°	1326.6	1370.6	1405.8	1423.9	1451.0	1457.0	1454.2
20°	1391.6	1439.6	1467.1	1498.1	1512.2	1524.8	1527.0
22.5°	1447.7	1490.7	1520.2	1546.1	1557.8	1563.8	1567.4
25°	1505.3	1539.3	1557.0	1565.9	1569.2	1568.5	1563.8
27.5°	1501.4	1503.9	1484.5	1465.4	1448.2	1428.9	1422.3
30°	1462.4	1432.0	1377.9	1347.2	1302.1	1266.3	1280.8
32.5°	1359.8	1299.5	1238.7	1171.6	1116.1	1100.3	1084.4
35°	1160.6	1054.4	992.4	920.2	891.3	862.4	842.5
37.5°	939.0	856.9	783.2	735.9	707.0	688.8	678.9
40°	811.9	737.8	677.2	638.9	616.9	596.3	593.4
42.5°	710.5	641.7	596.1	565.6	544.4	535.7	529.3
45°	581.9	533.9	503.2	481.5	467.5	462.0	454.9
47.5°	492.6	458.6	435.5	420.8	410.2	406.1	405.6
50°	442.6	414.4	397.5	385.9	377.6	376.2	370.4
52.5°	405.0	380.6	367.4	357.3	351.3	347.2	345.5
55°	351.6	335.4	323.5	317.6	313.0	309.0	309.0
57.5°	307.6	294.1	286.2	281.3	279.8	277.0	275.2
60°	280.5	268.9	262.8	258.4	255.6	255.9	252.7
62.5°	253.9	246.4	240.5	236.2	232.8	232.8	233.1
65°	216.2	210.5	206.1	204.7	202.6	200.0	200.7
67.5°	183.2	177.9	174.5	172.0	171.3	169.8	172.0
70°	159.6	155.6	153.1	150.9	150.1	150.5	152.3
72.5°	137.9	135.1	133.5	132.4	130.8	130.9	132.1
75°	108.3	106.1	104.7	103.6	103.2	103.2	103.2
77.5°	79.6	79.1	78.4	76.8	76.9	77.3	77.4
80°	62.8	61.7	61.4	60.6	59.6	58.8	60.6
82.5°	46.9	45.8	45.5	45.3	43.6	43.5	45.1
85°	25.3	24.2	24.5	24.2	24.2	23.8	23.8
87.5°	14.8	14.7	14.5	15.0	14.8	14.5	15.3
90°	29.2	30.2	30.9	31.4	31.9	32.3	32.9
92.5°	44.4	45.1	45.4	45.1	44.9	44.5	44.2
95°	84.0	84.9	85.4	85.4	85.4	85.4	85.4
97.5°	130.2	131.3	131.8	131.7	131.6	131.5	131.4
100°	163.2	163.9	164.5	165.0	165.5	166.0	166.5
102.5°	201.7	202.5	202.7	202.6	202.6	202.5	202.4
105°	258.4	258.4	258.7	259.2	259.7	260.1	260.6
107.5°	321.5	322.3	322.4	322.2	321.9	321.6	321.3
110°	363.3	364.2	364.4	363.9	363.4	363.0	362.5



TEST NUMBER: P331947-830

CATALOG NUMBER: S123DIP-S560D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	405.0	406.1	406.7	406.6	406.5	406.4	406.3
115°	467.2	467.5	467.5	467.2	467.0	466.7	466.6
117.5°	530.7	530.7	530.4	529.7	529.0	528.3	527.6
120°	573.2	572.9	572.5	572.0	571.6	571.1	570.5
122.5°	615.8	615.1	614.4	613.8	613.1	612.4	611.7
125°	679.4	678.3	677.4	676.5	675.4	674.5	673.5
127.5°	742.2	740.7	739.5	738.4	737.3	736.1	735.1
130°	784.5	783.5	782.1	780.4	778.7	777.0	775.3
132.5°	825.1	823.9	822.7	821.3	820.0	818.7	817.4
135°	886.3	885.3	884.6	884.1	883.6	883.2	882.7
137.5°	945.9	944.9	944.0	943.0	942.2	941.2	940.3
140°	986.0	985.7	984.8	983.1	981.4	979.7	978.0
142.5°	1022.8	1022.6	1021.7	1020.4	1019.1	1017.9	1016.5
145°	1076.9	1076.7	1076.0	1075.1	1074.0	1073.1	1072.1
147.5°	1128.2	1128.2	1127.5	1126.0	1124.5	1123.0	1121.6
150°	1159.7	1159.7	1159.0	1157.5	1156.1	1154.6	1153.2
152.5°	1188.9	1189.3	1188.9	1187.6	1186.4	1185.1	1183.8
155°	1231.6	1232.7	1232.3	1230.6	1228.9	1227.2	1225.4
157.5°	1267.9	1268.9	1268.8	1267.4	1266.0	1264.7	1263.3
160°	1290.4	1291.7	1291.8	1290.8	1289.8	1288.8	1287.9
162.5°	1311.5	1312.7	1312.5	1310.9	1309.4	1307.8	1306.3
165°	1338.2	1339.7	1339.5	1337.8	1336.1	1334.5	1332.8
167.5°	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3
170°	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7
172.5°	1380.9	1382.4	1382.3	1380.5	1378.8	1377.1	1375.5
175°	1390.8	1392.2	1392.1	1390.4	1388.7	1387.0	1385.3
177.5°	1395.0	1396.1	1396.0	1394.7	1393.3	1391.9	1390.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1

(END OF REPORT)