

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: P331312-830

Luminaire Tested: **SA2XXDIP-C485D925U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331312-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D925U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

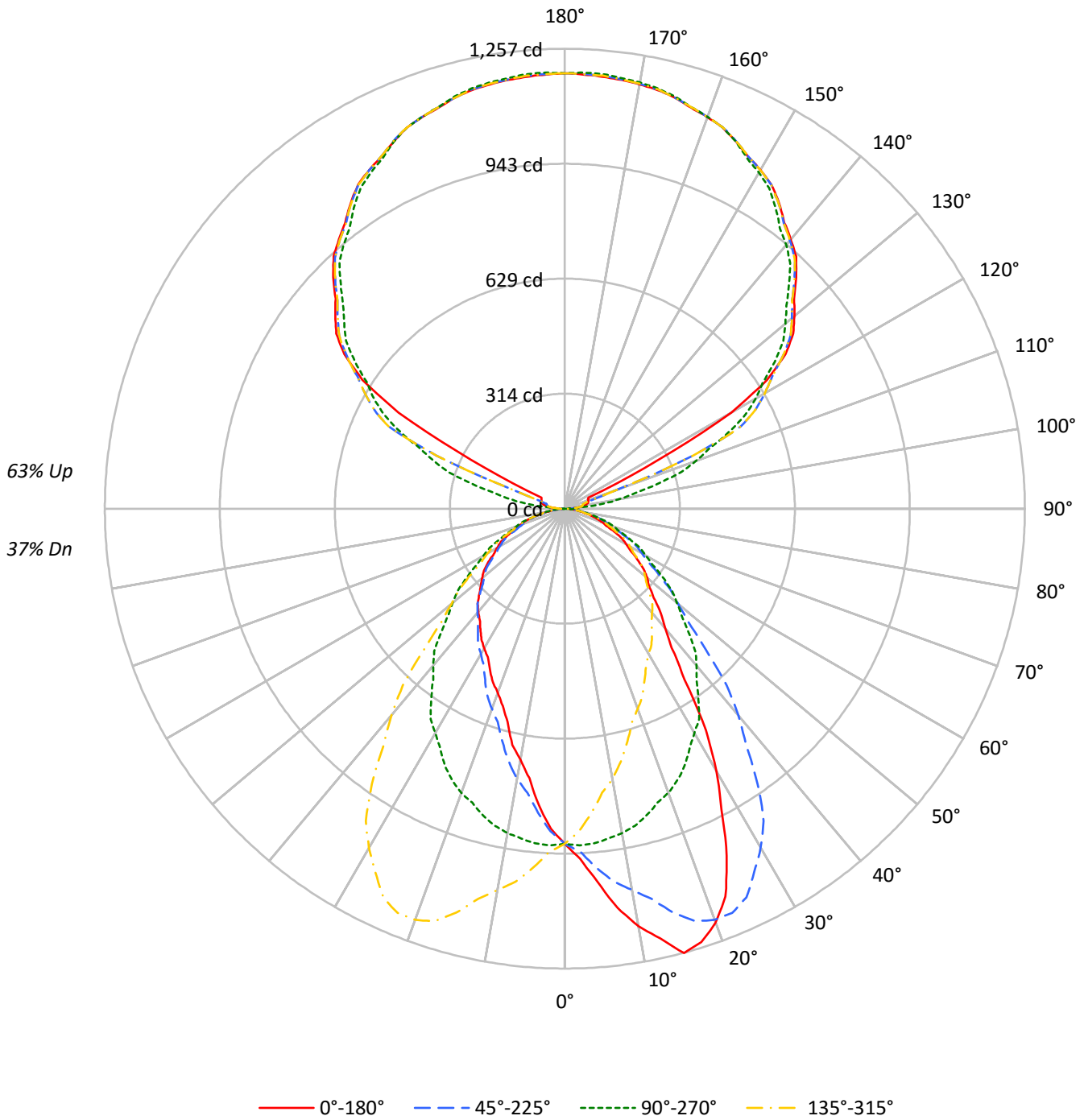
Lumens per Lamp: N/A
Luminaire Lumens: 5509.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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	80	77	67	65	63	53	51	50	39	38	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	79	70	64	58	72	64	58	53	52	48	45	41	39	36	31	29	28	23
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	25	45	35	28	24	29	24	20	23	20	17	18	16	14	12
10	46	34	27	23	42	32	26	21	26	22	18	22	18	16	17	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.6
10°-20°	253.6	4.6
20°-30°	368.0	6.7
30°-40°	388.4	7.0
40°-50°	343.9	6.2
50°-60°	274.4	5.0
60°-70°	186.5	3.4
70°-80°	95.6	1.7
80°-90°	26.0	0.5
90°-100°	39.7	0.7
100°-110°	145.5	2.6
110°-120°	389.0	7.1
120°-130°	642.1	11.7
130°-140°	682.9	12.4
140°-150°	634.7	11.5
150°-160°	510.3	9.3
160°-170°	328.8	6.0
170°-180°	113.2	2.1
0°-30°	708.8	12.9
0°-40°	1097.2	19.9
0°-60°	1715.5	31.1
0°-90°	2023.6	36.7
90°-120°	574.2	10.4
90°-150°	2533.9	46.0
90°-180°	3486.0	63.3
0°-180°	5509.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	21
90°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	65	262	65	262	65	68
115°	71	495	71	495	71	177
125°	736	700	736	700	736	637
135°	894	866	894	866	894	689
145°	1020	1005	1020	1005	1020	638
155°	1107	1106	1107	1106	1107	511
165°	1163	1166	1163	1166	1163	328
175°	1185	1192	1185	1192	1185	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	12.0	11.9	12.1	11.8	11.7	11.8	11.6	11.1	11.2	11.3	11.3
90°	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1	18.2	17.2	15.6
92.5°	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9	20.5	20.0	19.2
95°	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4	34.5	33.6	32.2
97.5°	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5	45.7	45.0	41.8
100°	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1	50.6	49.1	45.8
102.5°	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4	52.4	50.4	77.7
105°	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7	54.6	52.5	104.7
107.5°	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2	71.4	73.5	136.1
110°	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4	131.5	150.6	205.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4	310.2	379.9	393.6
115°	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0	442.5	531.1	526.3
117.5°	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4	566.8	588.2	585.0
120°	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6	633.3	630.9	627.5
122.5°	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4	673.0	671.7	667.9
125°	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1	728.8	727.4	723.8
127.5°	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6	779.6	777.7	775.0
130°	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3	812.1	810.0	807.9
132.5°	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0	844.2	842.4	840.3
135°	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4	889.4	887.5	885.8
137.5°	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4	931.5	929.7	927.7
140°	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6	958.9	957.2	955.2
142.5°	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8	984.3	982.7	980.3
145°	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1	1019.6	1018.3	1015.1
147.5°	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7	1050.7	1049.7	1046.5
150°	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5	1069.4	1068.3	1065.3
152.5°	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8	1086.7	1085.5	1082.6
155°	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1	1109.8	1108.7	1106.5
157.5°	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6	1129.4	1128.0	1126.4
160°	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0	1140.9	1139.7	1138.6
162.5°	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6	1151.3	1150.1	1149.1
165°	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0	1162.4
167.5°	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5	1175.2	1173.8	1173.3
170°	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0	1180.6	1179.3	1178.9
172.5°	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1	1184.8	1183.5	1183.1
175°	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6	1189.3	1187.9	1187.5
177.5°	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1	1190.1	1188.9	1188.8
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	11.3	10.9	10.7	10.8	9.6	9.1	7.6	6.4	6.5	6.7	6.5
90°	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3	17.2	17.0	16.8
95°	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0	49.7	43.4	37.0
97.5°	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0	93.2	75.5	57.7
100°	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4	126.1	99.9	73.7
102.5°	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8	192.3	186.7	181.2
105°	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6	267.4	273.1	278.9
107.5°	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5	339.1	343.7	348.4
110°	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4	385.4	389.4	393.4



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4	429.0	432.5	436.1
115°	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9	498.2	501.4	504.7
117.5°	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1	560.7	564.4	568.1
120°	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6	605.4	608.3	611.1
122.5°	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1	644.1	647.1	650.2
125°	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8	702.3	704.8	707.3
127.5°	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0	755.8	758.6	761.3
130°	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8	789.9	792.9	796.0
132.5°	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2	823.8	826.4	829.1
135°	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0	869.0	872.1	875.2
137.5°	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3	913.4	915.6	917.7
140°	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8	942.4	944.0	945.5
142.5°	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6	967.0	968.5	969.8
145°	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6	1004.4	1004.2	1004.0
147.5°	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5	1037.7	1037.1	1036.3
150°	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5	1059.2	1057.8	1056.5
152.5°	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1	1077.6	1076.1	1074.7
155°	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2	1104.5	1102.7	1101.0
157.5°	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3	1125.9	1124.5	1122.9
160°	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1138.6	1137.5	1136.2
162.5°	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8	1149.6	1148.5	1147.3
165°	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5	1164.4	1163.3	1162.1
167.5°	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6	1175.4	1174.3	1173.1
170°	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8	1181.6	1180.4	1179.3
172.5°	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8	1185.7	1184.6	1183.5
175°	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2	1190.9	1189.6	1188.2
177.5°	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1	1192.0	1191.0	1189.9
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	6.6	6.7	6.8	7.1	7.1	7.1	7.0	7.2	7.4	7.1	7.2
90°	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1	20.1	21.0	21.7
92.5°	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9	21.5	22.0	22.3
95°	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4	36.5	37.4	37.8
97.5°	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5	47.2	48.0	48.4
100°	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1	53.6	55.2	56.2
102.5°	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4	56.5	58.4	59.7
105°	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7	58.8	60.9	62.4
107.5°	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2	67.1	64.9	64.3
110°	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4	93.2	74.1	64.9



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4	170.6	100.9	66.3
115°	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0	265.4	176.8	125.6
117.5°	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4	524.1	502.6	469.2
120°	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6	637.9	640.2	628.4
122.5°	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4	675.7	677.1	675.3
125°	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1	731.4	732.7	733.7
127.5°	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6	783.5	785.5	786.5
130°	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3	816.3	818.4	819.4
132.5°	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0	847.8	849.6	850.4
135°	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4	893.2	895.1	895.9
137.5°	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4	935.3	937.2	937.8
140°	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6	962.4	964.1	964.5
142.5°	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8	987.4	989.0	989.3
145°	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1	1022.4	1023.7	1023.9
147.5°	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7	1052.6	1053.7	1053.8
150°	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5	1071.8	1072.9	1073.0
152.5°	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8	1088.9	1090.1	1090.1
155°	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1	1112.2	1113.3	1113.1
157.5°	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6	1131.9	1133.2	1133.1
160°	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0	1143.2	1144.3	1144.2
162.5°	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6	1154.0	1155.3	1155.1
165°	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3
167.5°	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5	1177.8	1179.2	1178.9
170°	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0	1183.4	1184.7	1184.5
172.5°	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1	1187.5	1188.8	1188.6
175°	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6	1191.9	1193.3	1193.0
177.5°	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1	1192.2	1193.3	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331312-830
 CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	7.3	7.1	7.1	6.9	7.1	7.1	7.3	7.2	7.1	7.4	7.2
90°	22.1	22.4	22.9	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1
92.5°	22.5	22.8	23.0	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9
95°	37.6	37.4	37.2	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4
97.5°	48.7	48.9	49.2	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5
100°	56.6	56.9	57.3	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1
102.5°	60.2	60.7	61.3	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4
105°	63.2	63.9	64.7	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7
107.5°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2
110°	65.7	66.4	67.2	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.8	67.5	68.1	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4
115°	111.9	98.1	84.4	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0
117.5°	424.0	378.7	333.5	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4
120°	602.6	576.7	550.9	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6
122.5°	670.3	665.2	660.3	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4
125°	734.2	734.8	735.5	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1
127.5°	786.6	786.7	786.8	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6
130°	819.3	819.0	818.8	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3
132.5°	850.2	850.0	849.8	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0
135°	895.5	895.1	894.8	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4
137.5°	937.2	936.5	935.9	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4
140°	963.6	962.6	961.7	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6
142.5°	988.4	987.4	986.5	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8
145°	1022.9	1022.0	1021.1	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1
147.5°	1052.9	1052.2	1051.3	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7
150°	1072.0	1071.0	1070.1	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5
152.5°	1088.7	1087.5	1086.3	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8
155°	1111.6	1110.0	1108.5	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1
157.5°	1131.6	1130.1	1128.6	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6
160°	1142.8	1141.5	1140.2	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0
162.5°	1153.5	1151.8	1150.2	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6
165°	1167.0	1165.6	1164.3	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6
167.5°	1177.2	1175.5	1173.8	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5
170°	1182.8	1181.0	1179.3	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0
172.5°	1186.8	1185.2	1183.5	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1
175°	1191.1	1189.2	1187.2	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6
177.5°	1191.8	1190.3	1188.9	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	7.0	7.1	7.1	7.1	6.8	6.7	6.6	6.5	6.7	6.5	6.4
90°	18.2	17.2	15.6	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8
92.5°	20.5	20.0	19.2	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3
95°	34.5	33.6	32.2	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0
97.5°	45.7	45.0	41.8	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0
100°	50.6	49.1	45.8	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4
102.5°	52.4	50.4	77.7	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8
105°	54.6	52.5	104.7	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6
107.5°	71.4	73.5	136.1	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5
110°	131.5	150.6	205.9	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.2	379.9	393.6	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4
115°	442.5	531.1	526.3	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9
117.5°	566.8	588.2	585.0	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1
120°	633.3	630.9	627.5	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6
122.5°	673.0	671.7	667.9	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1
125°	728.8	727.4	723.8	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8
127.5°	779.6	777.7	775.0	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0
130°	812.1	810.0	807.9	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8
132.5°	844.2	842.4	840.3	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2
135°	889.4	887.5	885.8	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0
137.5°	931.5	929.7	927.7	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3
140°	958.9	957.2	955.2	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8
142.5°	984.3	982.7	980.3	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6
145°	1019.6	1018.3	1015.1	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6
147.5°	1050.7	1049.7	1046.5	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5
150°	1069.4	1068.3	1065.3	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5
152.5°	1086.7	1085.5	1082.6	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1
155°	1109.8	1108.7	1106.5	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2
157.5°	1129.4	1128.0	1126.4	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3
160°	1140.9	1139.7	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7
162.5°	1151.3	1150.1	1149.1	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8
165°	1164.3	1163.0	1162.4	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5
167.5°	1175.2	1173.8	1173.3	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6
170°	1180.6	1179.3	1178.9	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8
172.5°	1184.8	1183.5	1183.1	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8
175°	1189.3	1187.9	1187.5	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2
177.5°	1190.1	1188.9	1188.8	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331312-830

CATALOG NUMBER: SA2XXDIP-C485D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.6	9.1	9.6	10.8	10.7	10.9	11.3	11.3	11.3	11.2	11.1
90°	2.9	5.1	7.2	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1
92.5°	17.2	17.0	16.8	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9
95°	49.7	43.4	37.0	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4
97.5°	93.2	75.5	57.7	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5
100°	126.1	99.9	73.7	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1
102.5°	192.3	186.7	181.2	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4
105°	267.4	273.1	278.9	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7
107.5°	339.1	343.7	348.4	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2
110°	385.4	389.4	393.4	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.0	432.5	436.1	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4
115°	498.2	501.4	504.7	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0
117.5°	560.7	564.4	568.1	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4
120°	605.4	608.3	611.1	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6
122.5°	644.1	647.1	650.2	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4
125°	702.3	704.8	707.3	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1
127.5°	755.8	758.6	761.3	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6
130°	789.9	792.9	796.0	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3
132.5°	823.8	826.4	829.1	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0
135°	869.0	872.1	875.2	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4
137.5°	913.4	915.6	917.7	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4
140°	942.4	944.0	945.5	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6
142.5°	967.0	968.5	969.8	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8
145°	1004.4	1004.2	1004.0	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1
147.5°	1037.7	1037.1	1036.3	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7
150°	1059.2	1057.8	1056.5	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5
152.5°	1077.6	1076.1	1074.7	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8
155°	1104.5	1102.7	1101.0	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1
157.5°	1125.9	1124.5	1122.9	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6
160°	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0
162.5°	1149.6	1148.5	1147.3	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6
165°	1164.4	1163.3	1162.1	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6
167.5°	1175.4	1174.3	1173.1	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5
170°	1181.6	1180.4	1179.3	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0
172.5°	1185.7	1184.6	1183.5	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1
175°	1190.9	1189.6	1188.2	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6
177.5°	1192.0	1191.0	1189.9	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	11.6	11.8	11.7	11.8	12.1	11.9	12.0
90°	20.1	21.0	21.7	22.1	22.4	22.9	23.3
92.5°	21.5	22.0	22.3	22.5	22.8	23.0	23.3
95°	36.5	37.4	37.8	37.6	37.4	37.2	37.0
97.5°	47.2	48.0	48.4	48.7	48.9	49.2	49.4
100°	53.6	55.2	56.2	56.6	56.9	57.3	57.7
102.5°	56.5	58.4	59.7	60.2	60.7	61.3	61.8
105°	58.8	60.9	62.4	63.2	63.9	64.7	65.4
107.5°	67.1	64.9	64.3	65.0	65.8	66.5	67.3
110°	93.2	74.1	64.9	65.7	66.4	67.2	68.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.6	100.9	66.3	66.8	67.5	68.1	68.7
115°	265.4	176.8	125.6	111.9	98.1	84.4	70.6
117.5°	524.1	502.6	469.2	424.0	378.7	333.5	288.2
120°	637.9	640.2	628.4	602.6	576.7	550.9	525.1
122.5°	675.7	677.1	675.3	670.3	665.2	660.3	655.3
125°	731.4	732.7	733.7	734.2	734.8	735.5	736.0
127.5°	783.5	785.5	786.5	786.6	786.7	786.8	786.9
130°	816.3	818.4	819.4	819.3	819.0	818.8	818.6
132.5°	847.8	849.6	850.4	850.2	850.0	849.8	849.6
135°	893.2	895.1	895.9	895.5	895.1	894.8	894.4
137.5°	935.3	937.2	937.8	937.2	936.5	935.9	935.2
140°	962.4	964.1	964.5	963.6	962.6	961.7	960.6
142.5°	987.4	989.0	989.3	988.4	987.4	986.5	985.4
145°	1022.4	1023.7	1023.9	1022.9	1022.0	1021.1	1020.1
147.5°	1052.6	1053.7	1053.8	1052.9	1052.2	1051.3	1050.6
150°	1071.8	1072.9	1073.0	1072.0	1071.0	1070.1	1069.1
152.5°	1088.9	1090.1	1090.1	1088.7	1087.5	1086.3	1085.0
155°	1112.2	1113.3	1113.1	1111.6	1110.0	1108.5	1107.0
157.5°	1131.9	1133.2	1133.1	1131.6	1130.1	1128.6	1127.2
160°	1143.2	1144.3	1144.2	1142.8	1141.5	1140.2	1138.9
162.5°	1154.0	1155.3	1155.1	1153.5	1151.8	1150.2	1148.5
165°	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0
167.5°	1177.8	1179.2	1178.9	1177.2	1175.5	1173.8	1172.1
170°	1183.4	1184.7	1184.5	1182.8	1181.0	1179.3	1177.6
172.5°	1187.5	1188.8	1188.6	1186.8	1185.2	1183.5	1181.8
175°	1191.9	1193.3	1193.0	1191.1	1189.2	1187.2	1185.3
177.5°	1192.2	1193.3	1193.1	1191.8	1190.3	1188.9	1187.6
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7

(END OF REPORT)