

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: P331514-930

Luminaire Tested: **S122DIW-S485D1240U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331514-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S485D1240U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5255.7 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

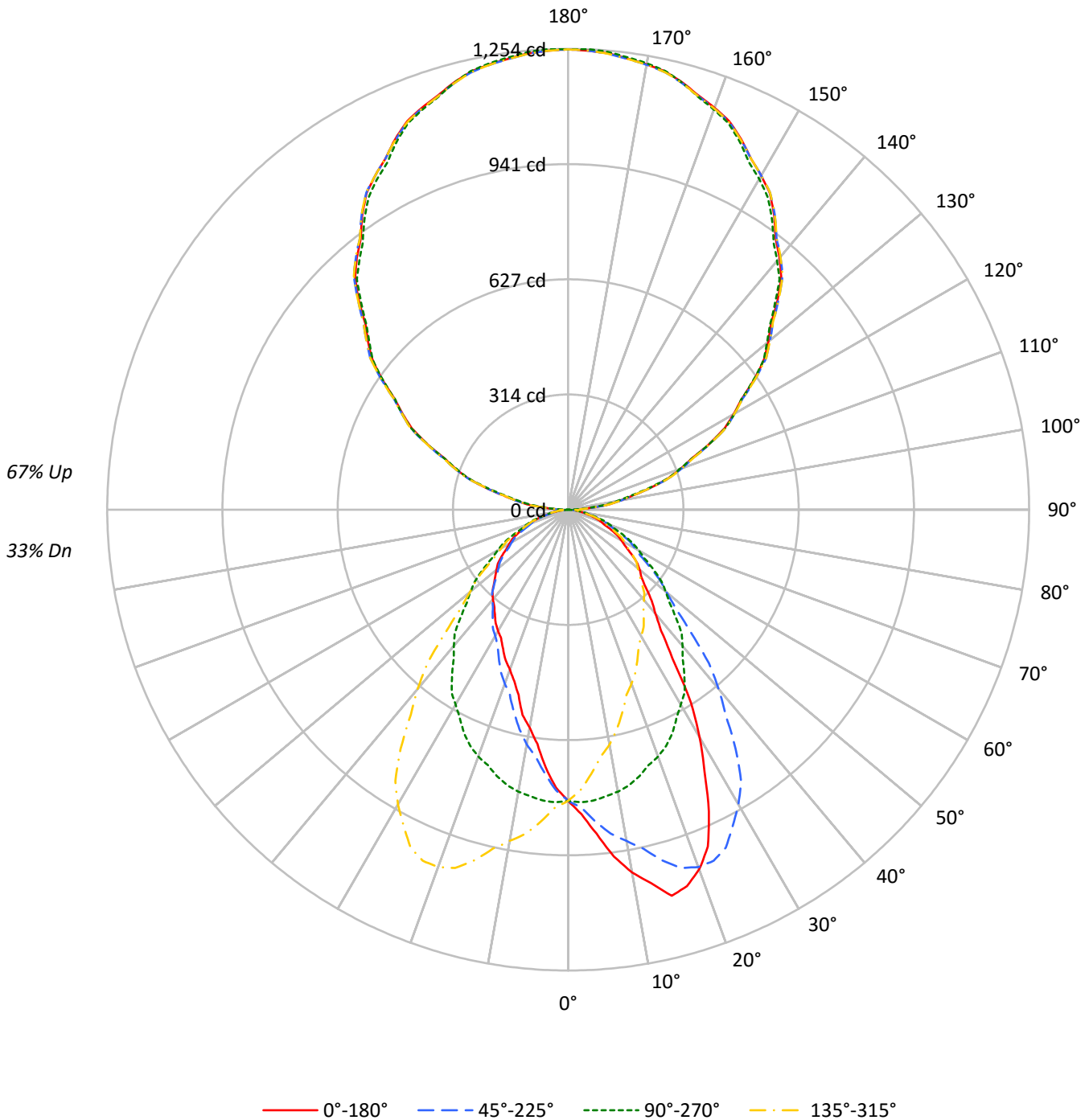
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	87	83	85	82	78	76	65	63	61	50	49	48	37	36	35	29
2	86	79	73	68	77	72	67	63	58	54	51	45	42	40	33	31	30	25
3	79	70	63	57	71	63	57	53	51	47	43	40	37	34	29	27	26	21
4	72	62	54	49	65	56	50	45	45	41	37	35	32	30	26	24	23	18
5	66	55	47	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16
6	61	50	42	36	55	45	38	34	37	32	28	29	25	23	22	19	18	14
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	16	13
8	52	41	33	28	47	37	31	26	30	26	22	24	21	18	18	16	14	12
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10

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

	0°	90°	180°	270°
0°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.4
10°-20°	219.3	4.2
20°-30°	318.3	6.1
30°-40°	335.9	6.4
40°-50°	297.4	5.7
50°-60°	237.4	4.5
60°-70°	161.3	3.1
70°-80°	82.7	1.6
80°-90°	24.9	0.5
90°-100°	79.4	1.5
100°-110°	246.5	4.7
110°-120°	421.4	8.0
120°-130°	554.2	10.5
130°-140°	622.0	11.8
140°-150°	609.9	11.6
150°-160°	511.5	9.7
160°-170°	339.3	6.5
170°-180°	118.6	2.3
0°-30°	613.1	11.7
0°-40°	949.1	18.1
0°-60°	1483.9	28.2
0°-90°	1752.9	33.4
90°-120°	747.3	14.2
90°-150°	2533.4	48.2
90°-180°	3503.0	66.7
0°-180°	5255.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	19
90°	36	1	36	1	36	16
95°	66	55	66	55	66	73
105°	235	227	235	227	235	247
115°	423	423	423	423	423	418
125°	617	615	617	615	617	550
135°	806	796	806	796	806	620
145°	977	966	977	966	977	610
155°	1113	1105	1113	1105	1113	512
165°	1203	1202	1203	1202	1203	339
175°	1246	1251	1246	1251	1246	118
180°	1253	1253	1253	1253	1253	



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	13.5	13.5	13.7	13.4	13.4	13.6	13.7	13.5	13.9	14.2	13.5
90°	36.0	35.7	35.5	35.2	35.0	35.1	35.6	36.0	36.5	37.0	31.8
92.5°	34.2	34.2	34.2	34.1	34.1	34.0	33.9	33.8	33.7	33.6	32.4
95°	65.6	66.0	66.4	66.9	67.4	67.7	67.7	67.7	67.7	67.7	67.2
97.5°	113.6	113.6	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	112.8
100°	144.8	145.0	145.3	145.5	145.8	145.9	145.9	145.9	145.9	145.9	145.2
102.5°	180.3	180.6	180.8	181.1	181.3	181.3	181.2	180.9	180.8	180.6	179.7
105°	234.7	234.7	234.7	234.7	234.7	234.5	234.0	233.5	233.0	232.6	232.1
107.5°	285.8	286.9	288.0	289.1	290.2	290.7	290.4	290.2	290.1	289.8	289.8
110°	325.6	326.3	327.0	327.8	328.4	328.8	328.8	328.8	328.8	328.8	328.8



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	363.6	364.2	364.7	365.2	365.7	366.2	366.8	367.4	367.9	368.5	368.7
115°	422.9	423.5	424.3	425.0	425.7	426.2	426.4	426.6	426.9	427.1	427.5
117.5°	479.3	480.0	480.7	481.4	482.2	482.7	483.3	483.9	484.5	485.0	486.3
120°	519.1	519.8	520.5	521.1	521.9	522.2	522.2	522.2	522.2	522.2	524.1
122.5°	558.0	558.5	559.0	559.5	560.0	560.6	561.2	561.7	562.2	562.8	564.1
125°	617.3	617.6	617.8	618.1	618.3	618.8	619.5	620.2	620.9	621.6	622.3
127.5°	671.5	672.3	673.0	673.8	674.5	675.3	676.1	677.0	677.8	678.7	679.6
130°	710.4	711.3	712.3	713.2	714.2	714.9	715.3	715.8	716.2	716.7	717.2
132.5°	747.6	748.4	749.1	749.9	750.6	751.5	752.5	753.6	754.6	755.6	755.5
135°	805.5	806.2	807.0	807.6	808.4	808.9	809.1	809.3	809.5	809.8	809.3
137.5°	858.0	858.9	859.9	860.8	861.8	862.3	862.5	862.7	862.9	863.1	862.4
140°	894.4	895.3	896.3	897.2	898.1	898.5	898.5	898.5	898.5	898.5	897.4
142.5°	927.3	928.3	929.2	930.2	931.1	931.5	931.3	931.1	930.9	930.7	929.9
145°	976.8	977.8	978.7	979.7	980.6	980.9	980.7	980.5	980.2	980.0	978.6
147.5°	1021.0	1021.9	1022.8	1023.7	1024.6	1024.7	1024.3	1023.7	1023.2	1022.7	1021.7
150°	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6	1051.9	1051.2	1050.4	1049.8	1048.8
152.5°	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4	1079.5	1078.6	1077.7	1076.8	1075.7
155°	1113.2	1113.9	1114.6	1115.3	1116.0	1115.7	1114.6	1113.5	1112.2	1111.1	1110.4
157.5°	1144.4	1145.6	1146.7	1147.9	1149.0	1148.8	1147.1	1145.6	1143.9	1142.4	1141.9
160°	1163.9	1164.9	1165.8	1166.8	1167.7	1167.4	1166.0	1164.7	1163.2	1161.8	1161.6
162.5°	1180.9	1181.9	1183.1	1184.2	1185.4	1185.1	1183.5	1181.9	1180.3	1178.8	1178.5
165°	1203.1	1204.2	1205.4	1206.6	1207.7	1207.5	1205.8	1204.2	1202.6	1200.9	1200.9
167.5°	1221.2	1222.5	1223.7	1224.9	1226.1	1225.9	1224.3	1222.6	1221.0	1219.3	1219.4
170°	1230.5	1231.9	1233.4	1234.8	1236.2	1236.1	1234.4	1232.7	1231.1	1229.5	1229.7
172.5°	1238.1	1239.6	1241.0	1242.4	1243.7	1243.7	1242.0	1240.4	1238.8	1237.1	1237.3
175°	1246.3	1247.8	1249.2	1250.6	1252.1	1251.9	1250.3	1248.6	1247.0	1245.3	1245.8
177.5°	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7	1253.6	1252.5	1251.3	1250.2	1250.6
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	12.6	11.6	10.6	10.3	9.0	8.4	6.8	5.5	5.9	6.2	6.3
90°	26.7	21.5	16.3	12.3	9.5	6.7	3.9	1.1	3.9	6.7	9.5
92.5°	31.1	29.9	28.7	27.1	25.0	23.0	20.9	18.8	20.9	23.0	25.0
95°	66.7	66.3	65.8	64.4	62.0	59.7	57.3	55.0	57.3	59.7	62.0
97.5°	111.9	111.0	110.1	108.7	106.6	104.6	102.5	100.4	102.5	104.6	106.6
100°	144.5	143.7	143.1	141.8	139.9	138.0	136.2	134.3	136.2	138.0	139.9
102.5°	178.8	177.9	177.0	175.8	174.3	172.8	171.3	169.7	171.3	172.8	174.3
105°	231.6	231.1	230.7	230.1	229.4	228.7	228.0	227.3	228.0	228.7	229.4
107.5°	289.8	289.8	289.8	289.3	288.3	287.3	286.3	285.2	286.3	287.3	288.3
110°	328.8	328.8	328.8	328.1	326.7	325.2	323.8	322.5	323.8	325.2	326.7





TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	368.9	369.1	369.2	368.7	367.3	365.8	364.4	363.1	364.4	365.8	367.3
115°	428.0	428.5	428.9	428.5	427.1	425.7	424.3	422.9	424.3	425.7	427.1
117.5°	487.6	488.9	490.3	490.0	488.1	486.2	484.4	482.5	484.4	486.2	488.1
120°	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2	524.1	526.0	527.9
122.5°	565.5	566.8	568.1	567.6	565.3	563.1	560.8	558.6	560.8	563.1	565.3
125°	623.1	623.7	624.4	623.7	621.6	619.5	617.3	615.2	617.3	619.5	621.6
127.5°	680.4	681.3	682.1	681.2	678.5	675.8	673.1	670.4	673.1	675.8	678.5
130°	717.7	718.2	718.6	717.3	714.3	711.3	708.2	705.2	708.2	711.3	714.3
132.5°	755.5	755.4	755.3	754.0	751.5	749.0	746.5	744.0	746.5	749.0	751.5
135°	808.9	808.4	807.9	806.4	803.8	801.2	798.6	796.1	798.6	801.2	803.8
137.5°	861.9	861.2	860.6	859.2	857.1	855.0	852.9	850.8	852.9	855.0	857.1
140°	896.3	895.0	893.9	892.3	890.1	888.0	885.9	883.8	885.9	888.0	890.1
142.5°	929.1	928.3	927.5	926.1	924.0	921.9	919.7	917.6	919.7	921.9	924.0
145°	977.1	975.8	974.4	972.8	971.2	969.6	967.9	966.2	967.9	969.6	971.2
147.5°	1020.8	1019.9	1019.0	1017.5	1015.5	1013.5	1011.5	1009.6	1011.5	1013.5	1015.5
150°	1047.9	1046.9	1046.0	1044.8	1043.4	1042.0	1040.6	1039.2	1040.6	1042.0	1043.4
152.5°	1074.6	1073.4	1072.3	1071.1	1069.6	1068.2	1066.8	1065.4	1066.8	1068.2	1069.6
155°	1109.6	1109.0	1108.2	1107.6	1106.9	1106.1	1105.5	1104.7	1105.5	1106.1	1106.9
157.5°	1141.5	1141.1	1140.7	1140.2	1139.8	1139.3	1138.8	1138.3	1138.8	1139.3	1139.8
160°	1161.3	1161.1	1160.9	1160.5	1160.1	1159.6	1159.1	1158.6	1159.1	1159.6	1160.1
162.5°	1178.3	1178.0	1177.8	1177.6	1177.5	1177.5	1177.4	1177.2	1177.4	1177.5	1177.5
165°	1200.9	1200.9	1200.9	1201.0	1201.3	1201.5	1201.8	1202.0	1201.8	1201.5	1201.3
167.5°	1219.4	1219.4	1219.5	1219.9	1220.6	1221.3	1222.0	1222.7	1222.0	1221.3	1220.6
170°	1230.0	1230.2	1230.4	1230.9	1231.6	1232.3	1233.0	1233.7	1233.0	1232.3	1231.6
172.5°	1237.5	1237.8	1238.0	1238.5	1239.2	1239.9	1240.6	1241.3	1240.6	1239.9	1239.2
175°	1246.3	1246.8	1247.2	1247.8	1248.5	1249.2	1249.9	1250.6	1249.9	1249.2	1248.5
177.5°	1250.9	1251.3	1251.7	1252.1	1252.7	1253.3	1253.8	1254.4	1253.8	1253.3	1252.7
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	6.6	7.2	8.0	9.0	9.8	10.6	10.2	10.1	10.0	9.5	9.5
90°	12.3	16.3	21.5	26.7	31.8	37.0	36.5	36.0	35.6	35.1	35.0
92.5°	27.1	28.7	29.9	31.1	32.4	33.6	33.7	33.8	33.9	34.0	34.1
95°	64.4	65.8	66.3	66.7	67.2	67.7	67.7	67.7	67.7	67.7	67.4
97.5°	108.7	110.1	111.0	111.9	112.8	113.7	113.7	113.7	113.7	113.7	113.7
100°	141.8	143.1	143.7	144.5	145.2	145.9	145.9	145.9	145.9	145.9	145.8
102.5°	175.8	177.0	177.9	178.8	179.7	180.6	180.8	180.9	181.2	181.3	181.3
105°	230.1	230.7	231.1	231.6	232.1	232.6	233.0	233.5	234.0	234.5	234.7
107.5°	289.3	289.8	289.8	289.8	289.8	289.8	290.1	290.2	290.4	290.7	290.2
110°	328.1	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.4



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	368.7	369.2	369.1	368.9	368.7	368.5	367.9	367.4	366.8	366.2	365.7
115°	428.5	428.9	428.5	428.0	427.5	427.1	426.9	426.6	426.4	426.2	425.7
117.5°	490.0	490.3	488.9	487.6	486.3	485.0	484.5	483.9	483.3	482.7	482.2
120°	529.8	529.8	527.9	526.0	524.1	522.2	522.2	522.2	522.2	522.2	521.9
122.5°	567.6	568.1	566.8	565.5	564.1	562.8	562.2	561.7	561.2	560.6	560.0
125°	623.7	624.4	623.7	623.1	622.3	621.6	620.9	620.2	619.5	618.8	618.3
127.5°	681.2	682.1	681.3	680.4	679.6	678.7	677.8	677.0	676.1	675.3	674.5
130°	717.3	718.6	718.2	717.7	717.2	716.7	716.2	715.8	715.3	714.9	714.2
132.5°	754.0	755.3	755.4	755.5	755.5	755.6	754.6	753.6	752.5	751.5	750.6
135°	806.4	807.9	808.4	808.9	809.3	809.8	809.5	809.3	809.1	808.9	808.4
137.5°	859.2	860.6	861.2	861.9	862.4	863.1	862.9	862.7	862.5	862.3	861.8
140°	892.3	893.9	895.0	896.3	897.4	898.5	898.5	898.5	898.5	898.5	898.1
142.5°	926.1	927.5	928.3	929.1	929.9	930.7	930.9	931.1	931.3	931.5	931.1
145°	972.8	974.4	975.8	977.1	978.6	980.0	980.2	980.5	980.7	980.9	980.6
147.5°	1017.5	1019.0	1019.9	1020.8	1021.7	1022.7	1023.2	1023.7	1024.3	1024.7	1024.6
150°	1044.8	1046.0	1046.9	1047.9	1048.8	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6
152.5°	1071.1	1072.3	1073.4	1074.6	1075.7	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4
155°	1107.6	1108.2	1109.0	1109.6	1110.4	1111.1	1112.2	1113.5	1114.6	1115.7	1116.0
157.5°	1140.2	1140.7	1141.1	1141.5	1141.9	1142.4	1143.9	1145.6	1147.1	1148.8	1149.0
160°	1160.5	1160.9	1161.1	1161.3	1161.6	1161.8	1163.2	1164.7	1166.0	1167.4	1167.7
162.5°	1177.6	1177.8	1178.0	1178.3	1178.5	1178.8	1180.3	1181.9	1183.5	1185.1	1185.4
165°	1201.0	1200.9	1200.9	1200.9	1200.9	1200.9	1202.6	1204.2	1205.8	1207.5	1207.7
167.5°	1219.9	1219.5	1219.4	1219.4	1219.4	1219.3	1221.0	1222.6	1224.3	1225.9	1226.1
170°	1230.9	1230.4	1230.2	1230.0	1229.7	1229.5	1231.1	1232.7	1234.4	1236.1	1236.2
172.5°	1238.5	1238.0	1237.8	1237.5	1237.3	1237.1	1238.8	1240.4	1242.0	1243.7	1243.7
175°	1247.8	1247.2	1246.8	1246.3	1245.8	1245.3	1247.0	1248.6	1250.3	1251.9	1252.1
177.5°	1252.1	1251.7	1251.3	1250.9	1250.6	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	9.5	9.3	9.3	9.1	9.3	9.3	9.5	9.5	9.5	10.0	10.1
90°	35.2	35.5	35.7	36.0	35.7	35.5	35.2	35.0	35.1	35.6	36.0
92.5°	34.1	34.2	34.2	34.2	34.2	34.2	34.1	34.1	34.0	33.9	33.8
95°	66.9	66.4	66.0	65.6	66.0	66.4	66.9	67.4	67.7	67.7	67.7
97.5°	113.7	113.7	113.6	113.6	113.6	113.7	113.7	113.7	113.7	113.7	113.7
100°	145.5	145.3	145.0	144.8	145.0	145.3	145.5	145.8	145.9	145.9	145.9
102.5°	181.1	180.8	180.6	180.3	180.6	180.8	181.1	181.3	181.3	181.2	180.9
105°	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.5	234.0	233.5
107.5°	289.1	288.0	286.9	285.8	286.9	288.0	289.1	290.2	290.7	290.4	290.2
110°	327.8	327.0	326.3	325.6	326.3	327.0	327.8	328.4	328.8	328.8	328.8



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.2	364.7	364.2	363.6	364.2	364.7	365.2	365.7	366.2	366.8	367.4
115°	425.0	424.3	423.5	422.9	423.5	424.3	425.0	425.7	426.2	426.4	426.6
117.5°	481.4	480.7	480.0	479.3	480.0	480.7	481.4	482.2	482.7	483.3	483.9
120°	521.1	520.5	519.8	519.1	519.8	520.5	521.1	521.9	522.2	522.2	522.2
122.5°	559.5	559.0	558.5	558.0	558.5	559.0	559.5	560.0	560.6	561.2	561.7
125°	618.1	617.8	617.6	617.3	617.6	617.8	618.1	618.3	618.8	619.5	620.2
127.5°	673.8	673.0	672.3	671.5	672.3	673.0	673.8	674.5	675.3	676.1	677.0
130°	713.2	712.3	711.3	710.4	711.3	712.3	713.2	714.2	714.9	715.3	715.8
132.5°	749.9	749.1	748.4	747.6	748.4	749.1	749.9	750.6	751.5	752.5	753.6
135°	807.6	807.0	806.2	805.5	806.2	807.0	807.6	808.4	808.9	809.1	809.3
137.5°	860.8	859.9	858.9	858.0	858.9	859.9	860.8	861.8	862.3	862.5	862.7
140°	897.2	896.3	895.3	894.4	895.3	896.3	897.2	898.1	898.5	898.5	898.5
142.5°	930.2	929.2	928.3	927.3	928.3	929.2	930.2	931.1	931.5	931.3	931.1
145°	979.7	978.7	977.8	976.8	977.8	978.7	979.7	980.6	980.9	980.7	980.5
147.5°	1023.7	1022.8	1021.9	1021.0	1021.9	1022.8	1023.7	1024.6	1024.7	1024.3	1023.7
150°	1051.9	1051.2	1050.4	1049.8	1050.4	1051.2	1051.9	1052.6	1052.6	1051.9	1051.2
152.5°	1079.5	1078.6	1077.7	1076.8	1077.7	1078.6	1079.5	1080.4	1080.4	1079.5	1078.6
155°	1115.3	1114.6	1113.9	1113.2	1113.9	1114.6	1115.3	1116.0	1115.7	1114.6	1113.5
157.5°	1147.9	1146.7	1145.6	1144.4	1145.6	1146.7	1147.9	1149.0	1148.8	1147.1	1145.6
160°	1166.8	1165.8	1164.9	1163.9	1164.9	1165.8	1166.8	1167.7	1167.4	1166.0	1164.7
162.5°	1184.2	1183.1	1181.9	1180.9	1181.9	1183.1	1184.2	1185.4	1185.1	1183.5	1181.9
165°	1206.6	1205.4	1204.2	1203.1	1204.2	1205.4	1206.6	1207.7	1207.5	1205.8	1204.2
167.5°	1224.9	1223.7	1222.5	1221.2	1222.5	1223.7	1224.9	1226.1	1225.9	1224.3	1222.6
170°	1234.8	1233.4	1231.9	1230.5	1231.9	1233.4	1234.8	1236.2	1236.1	1234.4	1232.7
172.5°	1242.4	1241.0	1239.6	1238.1	1239.6	1241.0	1242.4	1243.7	1243.7	1242.0	1240.4
175°	1250.6	1249.2	1247.8	1246.3	1247.8	1249.2	1250.6	1252.1	1251.9	1250.3	1248.6
177.5°	1253.6	1252.5	1251.3	1250.2	1251.3	1252.5	1253.6	1254.7	1254.7	1253.6	1252.5
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	10.2	10.6	9.8	9.0	8.0	7.2	6.6	6.3	6.2	5.9	5.5
90°	36.5	37.0	31.8	26.7	21.5	16.3	12.3	9.5	6.7	3.9	1.1
92.5°	33.7	33.6	32.4	31.1	29.9	28.7	27.1	25.0	23.0	20.9	18.8
95°	67.7	67.7	67.2	66.7	66.3	65.8	64.4	62.0	59.7	57.3	55.0
97.5°	113.7	113.7	112.8	111.9	111.0	110.1	108.7	106.6	104.6	102.5	100.4
100°	145.9	145.9	145.2	144.5	143.7	143.1	141.8	139.9	138.0	136.2	134.3
102.5°	180.8	180.6	179.7	178.8	177.9	177.0	175.8	174.3	172.8	171.3	169.7
105°	233.0	232.6	232.1	231.6	231.1	230.7	230.1	229.4	228.7	228.0	227.3
107.5°	290.1	289.8	289.8	289.8	289.8	289.8	289.3	288.3	287.3	286.3	285.2
110°	328.8	328.8	328.8	328.8	328.8	328.8	328.1	326.7	325.2	323.8	322.5



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	367.9	368.5	368.7	368.9	369.1	369.2	368.7	367.3	365.8	364.4	363.1
115°	426.9	427.1	427.5	428.0	428.5	428.9	428.5	427.1	425.7	424.3	422.9
117.5°	484.5	485.0	486.3	487.6	488.9	490.3	490.0	488.1	486.2	484.4	482.5
120°	522.2	522.2	524.1	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2
122.5°	562.2	562.8	564.1	565.5	566.8	568.1	567.6	565.3	563.1	560.8	558.6
125°	620.9	621.6	622.3	623.1	623.7	624.4	623.7	621.6	619.5	617.3	615.2
127.5°	677.8	678.7	679.6	680.4	681.3	682.1	681.2	678.5	675.8	673.1	670.4
130°	716.2	716.7	717.2	717.7	718.2	718.6	717.3	714.3	711.3	708.2	705.2
132.5°	754.6	755.6	755.5	755.5	755.4	755.3	754.0	751.5	749.0	746.5	744.0
135°	809.5	809.8	809.3	808.9	808.4	807.9	806.4	803.8	801.2	798.6	796.1
137.5°	862.9	863.1	862.4	861.9	861.2	860.6	859.2	857.1	855.0	852.9	850.8
140°	898.5	898.5	897.4	896.3	895.0	893.9	892.3	890.1	888.0	885.9	883.8
142.5°	930.9	930.7	929.9	929.1	928.3	927.5	926.1	924.0	921.9	919.7	917.6
145°	980.2	980.0	978.6	977.1	975.8	974.4	972.8	971.2	969.6	967.9	966.2
147.5°	1023.2	1022.7	1021.7	1020.8	1019.9	1019.0	1017.5	1015.5	1013.5	1011.5	1009.6
150°	1050.4	1049.8	1048.8	1047.9	1046.9	1046.0	1044.8	1043.4	1042.0	1040.6	1039.2
152.5°	1077.7	1076.8	1075.7	1074.6	1073.4	1072.3	1071.1	1069.6	1068.2	1066.8	1065.4
155°	1112.2	1111.1	1110.4	1109.6	1109.0	1108.2	1107.6	1106.9	1106.1	1105.5	1104.7
157.5°	1143.9	1142.4	1141.9	1141.5	1141.1	1140.7	1140.2	1139.8	1139.3	1138.8	1138.3
160°	1163.2	1161.8	1161.6	1161.3	1161.1	1160.9	1160.5	1160.1	1159.6	1159.1	1158.6
162.5°	1180.3	1178.8	1178.5	1178.3	1178.0	1177.8	1177.6	1177.5	1177.5	1177.4	1177.2
165°	1202.6	1200.9	1200.9	1200.9	1200.9	1200.9	1201.0	1201.3	1201.5	1201.8	1202.0
167.5°	1221.0	1219.3	1219.4	1219.4	1219.4	1219.5	1219.9	1220.6	1221.3	1222.0	1222.7
170°	1231.1	1229.5	1229.7	1230.0	1230.2	1230.4	1230.9	1231.6	1232.3	1233.0	1233.7
172.5°	1238.8	1237.1	1237.3	1237.5	1237.8	1238.0	1238.5	1239.2	1239.9	1240.6	1241.3
175°	1247.0	1245.3	1245.8	1246.3	1246.8	1247.2	1247.8	1248.5	1249.2	1249.9	1250.6
177.5°	1251.3	1250.2	1250.6	1250.9	1251.3	1251.7	1252.1	1252.7	1253.3	1253.8	1254.4
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	796.4	797.6	801.5	805.4	809.8	811.0	812.9	811.2	810.7	815.4	818.8
5°	798.7	804.1	814.8	824.5	832.7	838.5	844.7	847.1	851.7	858.0	865.9
7.5°	796.1	806.7	823.5	837.7	853.1	864.3	873.0	880.4	889.4	901.6	914.8
10°	793.2	807.5	827.9	845.2	864.1	878.4	890.3	901.9	915.3	932.1	949.3
12.5°	787.8	804.8	830.3	850.8	875.1	889.2	905.1	930.1	944.5	967.8	992.2
15°	777.1	795.9	831.5	856.8	884.2	911.0	940.5	964.3	988.1	1001.8	1036.2
17.5°	761.0	788.7	828.2	857.7	892.5	934.7	967.8	994.8	1022.2	1044.4	1061.7
20°	748.1	778.3	823.3	858.7	900.0	945.4	983.5	1010.9	1034.6	1053.2	1063.9
22.5°	731.8	769.7	813.6	855.0	907.8	952.8	992.7	1014.3	1034.1	1043.2	1047.3
25°	706.0	751.8	801.4	851.9	911.6	959.1	995.6	1008.8	1014.6	1005.7	991.1
27.5°	678.4	729.3	787.3	846.2	909.3	955.0	981.1	979.1	969.3	940.7	917.9
30°	657.7	713.7	776.1	840.3	903.7	948.1	963.4	948.1	925.9	894.0	861.4
32.5°	636.0	694.0	764.2	832.1	893.5	932.5	935.9	909.6	875.2	838.9	798.3
35°	603.2	665.9	741.7	813.6	871.7	896.4	881.7	835.5	794.7	745.1	689.7
37.5°	566.1	635.4	711.3	786.4	839.2	845.6	809.3	760.6	703.0	644.7	579.5
40°	538.3	611.7	690.0	765.7	812.4	805.7	759.4	705.8	637.2	566.1	505.4
42.5°	513.5	586.9	666.6	740.9	778.3	759.9	705.8	640.0	566.4	499.3	443.8
45°	470.4	545.9	627.5	699.4	720.7	687.5	616.0	542.9	470.4	414.4	370.6
47.5°	428.7	503.3	584.1	647.3	654.8	610.2	532.0	456.8	394.5	348.9	318.0
50°	397.9	472.9	552.9	609.3	606.8	552.9	472.5	401.0	348.9	312.1	291.4
52.5°	370.4	441.2	518.1	569.3	556.4	497.7	420.9	357.4	314.6	285.8	267.0
55°	327.6	393.1	466.2	507.3	483.6	418.3	353.5	302.3	270.7	249.1	234.5
57.5°	285.1	346.5	409.0	434.4	408.1	348.0	293.9	256.8	233.0	217.0	207.5
60°	258.8	312.4	368.1	390.0	358.7	305.1	262.4	229.3	210.1	197.0	188.5
62.5°	232.5	280.5	333.0	345.0	316.3	271.0	233.3	205.6	189.9	178.2	170.2
65°	196.7	235.9	275.9	283.8	257.3	222.3	192.4	174.5	160.5	152.0	145.5
67.5°	161.3	192.8	221.1	227.5	204.3	180.0	158.4	142.8	133.3	126.2	120.8
70°	140.4	165.3	188.5	193.6	175.0	153.4	137.1	124.5	116.0	109.9	104.8
72.5°	118.2	139.0	158.2	161.8	146.6	130.0	116.6	106.7	99.2	95.3	90.3
75°	90.4	102.6	117.6	118.5	108.4	98.3	88.0	81.6	77.6	72.8	70.4
77.5°	63.8	73.4	81.9	83.6	77.6	70.8	65.0	59.9	56.6	54.3	52.1
80°	48.8	56.3	60.0	62.1	57.9	53.0	49.7	46.3	44.2	42.6	41.1
82.5°	34.8	39.5	43.0	44.6	42.2	39.4	36.0	34.1	32.4	31.1	30.7
85°	17.7	19.8	21.9	22.5	21.9	20.7	18.9	18.9	17.9	17.7	17.7
87.5°	6.8	8.4	9.0	10.3	10.6	11.6	12.6	13.5	14.2	13.9	13.5
90°	3.9	6.7	9.5	12.3	16.3	21.5	26.7	31.8	37.0	36.5	36.0
92.5°	20.9	23.0	25.0	27.1	28.7	29.9	31.1	32.4	33.6	33.7	33.8
95°	57.3	59.7	62.0	64.4	65.8	66.3	66.7	67.2	67.7	67.7	67.7
97.5°	102.5	104.6	106.6	108.7	110.1	111.0	111.9	112.8	113.7	113.7	113.7
100°	136.2	138.0	139.9	141.8	143.1	143.7	144.5	145.2	145.9	145.9	145.9
102.5°	171.3	172.8	174.3	175.8	177.0	177.9	178.8	179.7	180.6	180.8	180.9
105°	228.0	228.7	229.4	230.1	230.7	231.1	231.6	232.1	232.6	233.0	233.5
107.5°	286.3	287.3	288.3	289.3	289.8	289.8	289.8	289.8	289.8	290.1	290.2
110°	323.8	325.2	326.7	328.1	328.8	328.8	328.8	328.8	328.8	328.8	328.8





TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	364.4	365.8	367.3	368.7	369.2	369.1	368.9	368.7	368.5	367.9	367.4
115°	424.3	425.7	427.1	428.5	428.9	428.5	428.0	427.5	427.1	426.9	426.6
117.5°	484.4	486.2	488.1	490.0	490.3	488.9	487.6	486.3	485.0	484.5	483.9
120°	524.1	526.0	527.9	529.8	529.8	527.9	526.0	524.1	522.2	522.2	522.2
122.5°	560.8	563.1	565.3	567.6	568.1	566.8	565.5	564.1	562.8	562.2	561.7
125°	617.3	619.5	621.6	623.7	624.4	623.7	623.1	622.3	621.6	620.9	620.2
127.5°	673.1	675.8	678.5	681.2	682.1	681.3	680.4	679.6	678.7	677.8	677.0
130°	708.2	711.3	714.3	717.3	718.6	718.2	717.7	717.2	716.7	716.2	715.8
132.5°	746.5	749.0	751.5	754.0	755.3	755.4	755.5	755.5	755.6	754.6	753.6
135°	798.6	801.2	803.8	806.4	807.9	808.4	808.9	809.3	809.8	809.5	809.3
137.5°	852.9	855.0	857.1	859.2	860.6	861.2	861.9	862.4	863.1	862.9	862.7
140°	885.9	888.0	890.1	892.3	893.9	895.0	896.3	897.4	898.5	898.5	898.5
142.5°	919.7	921.9	924.0	926.1	927.5	928.3	929.1	929.9	930.7	930.9	931.1
145°	967.9	969.6	971.2	972.8	974.4	975.8	977.1	978.6	980.0	980.2	980.5
147.5°	1011.5	1013.5	1015.5	1017.5	1019.0	1019.9	1020.8	1021.7	1022.7	1023.2	1023.7
150°	1040.6	1042.0	1043.4	1044.8	1046.0	1046.9	1047.9	1048.8	1049.8	1050.4	1051.2
152.5°	1066.8	1068.2	1069.6	1071.1	1072.3	1073.4	1074.6	1075.7	1076.8	1077.7	1078.6
155°	1105.5	1106.1	1106.9	1107.6	1108.2	1109.0	1109.6	1110.4	1111.1	1112.2	1113.5
157.5°	1138.8	1139.3	1139.8	1140.2	1140.7	1141.1	1141.5	1141.9	1142.4	1143.9	1145.6
160°	1159.1	1159.6	1160.1	1160.5	1160.9	1161.1	1161.3	1161.6	1161.8	1163.2	1164.7
162.5°	1177.4	1177.5	1177.5	1177.6	1177.8	1178.0	1178.3	1178.5	1178.8	1180.3	1181.9
165°	1201.8	1201.5	1201.3	1201.0	1200.9	1200.9	1200.9	1200.9	1200.9	1202.6	1204.2
167.5°	1222.0	1221.3	1220.6	1219.9	1219.5	1219.4	1219.4	1219.4	1219.3	1221.0	1222.6
170°	1233.0	1232.3	1231.6	1230.9	1230.4	1230.2	1230.0	1229.7	1229.5	1231.1	1232.7
172.5°	1240.6	1239.9	1239.2	1238.5	1238.0	1237.8	1237.5	1237.3	1237.1	1238.8	1240.4
175°	1249.9	1249.2	1248.5	1247.8	1247.2	1246.8	1246.3	1245.8	1245.3	1247.0	1248.6
177.5°	1253.8	1253.3	1252.7	1252.1	1251.7	1251.3	1250.9	1250.6	1250.2	1251.3	1252.5
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	13.7	13.6	13.4	13.4	13.7	13.5	13.5
90°	35.6	35.1	35.0	35.2	35.5	35.7	36.0
92.5°	33.9	34.0	34.1	34.1	34.2	34.2	34.2
95°	67.7	67.7	67.4	66.9	66.4	66.0	65.6
97.5°	113.7	113.7	113.7	113.7	113.7	113.6	113.6
100°	145.9	145.9	145.8	145.5	145.3	145.0	144.8
102.5°	181.2	181.3	181.3	181.1	180.8	180.6	180.3
105°	234.0	234.5	234.7	234.7	234.7	234.7	234.7
107.5°	290.4	290.7	290.2	289.1	288.0	286.9	285.8
110°	328.8	328.8	328.4	327.8	327.0	326.3	325.6



TEST NUMBER: P331514-930

CATALOG NUMBER: S122DIW-S485D1240U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	366.8	366.2	365.7	365.2	364.7	364.2	363.6
115°	426.4	426.2	425.7	425.0	424.3	423.5	422.9
117.5°	483.3	482.7	482.2	481.4	480.7	480.0	479.3
120°	522.2	522.2	521.9	521.1	520.5	519.8	519.1
122.5°	561.2	560.6	560.0	559.5	559.0	558.5	558.0
125°	619.5	618.8	618.3	618.1	617.8	617.6	617.3
127.5°	676.1	675.3	674.5	673.8	673.0	672.3	671.5
130°	715.3	714.9	714.2	713.2	712.3	711.3	710.4
132.5°	752.5	751.5	750.6	749.9	749.1	748.4	747.6
135°	809.1	808.9	808.4	807.6	807.0	806.2	805.5
137.5°	862.5	862.3	861.8	860.8	859.9	858.9	858.0
140°	898.5	898.5	898.1	897.2	896.3	895.3	894.4
142.5°	931.3	931.5	931.1	930.2	929.2	928.3	927.3
145°	980.7	980.9	980.6	979.7	978.7	977.8	976.8
147.5°	1024.3	1024.7	1024.6	1023.7	1022.8	1021.9	1021.0
150°	1051.9	1052.6	1052.6	1051.9	1051.2	1050.4	1049.8
152.5°	1079.5	1080.4	1080.4	1079.5	1078.6	1077.7	1076.8
155°	1114.6	1115.7	1116.0	1115.3	1114.6	1113.9	1113.2
157.5°	1147.1	1148.8	1149.0	1147.9	1146.7	1145.6	1144.4
160°	1166.0	1167.4	1167.7	1166.8	1165.8	1164.9	1163.9
162.5°	1183.5	1185.1	1185.4	1184.2	1183.1	1181.9	1180.9
165°	1205.8	1207.5	1207.7	1206.6	1205.4	1204.2	1203.1
167.5°	1224.3	1225.9	1226.1	1224.9	1223.7	1222.5	1221.2
170°	1234.4	1236.1	1236.2	1234.8	1233.4	1231.9	1230.5
172.5°	1242.0	1243.7	1243.7	1242.4	1241.0	1239.6	1238.1
175°	1250.3	1251.9	1252.1	1250.6	1249.2	1247.8	1246.3
177.5°	1253.6	1254.7	1254.7	1253.6	1252.5	1251.3	1250.2
180°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7

(END OF REPORT)