

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: P331514-830

Luminaire Tested: **S122DIW-S485D1240U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331514-830  
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-S485D1240U830-4F0-1E-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: 6076.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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

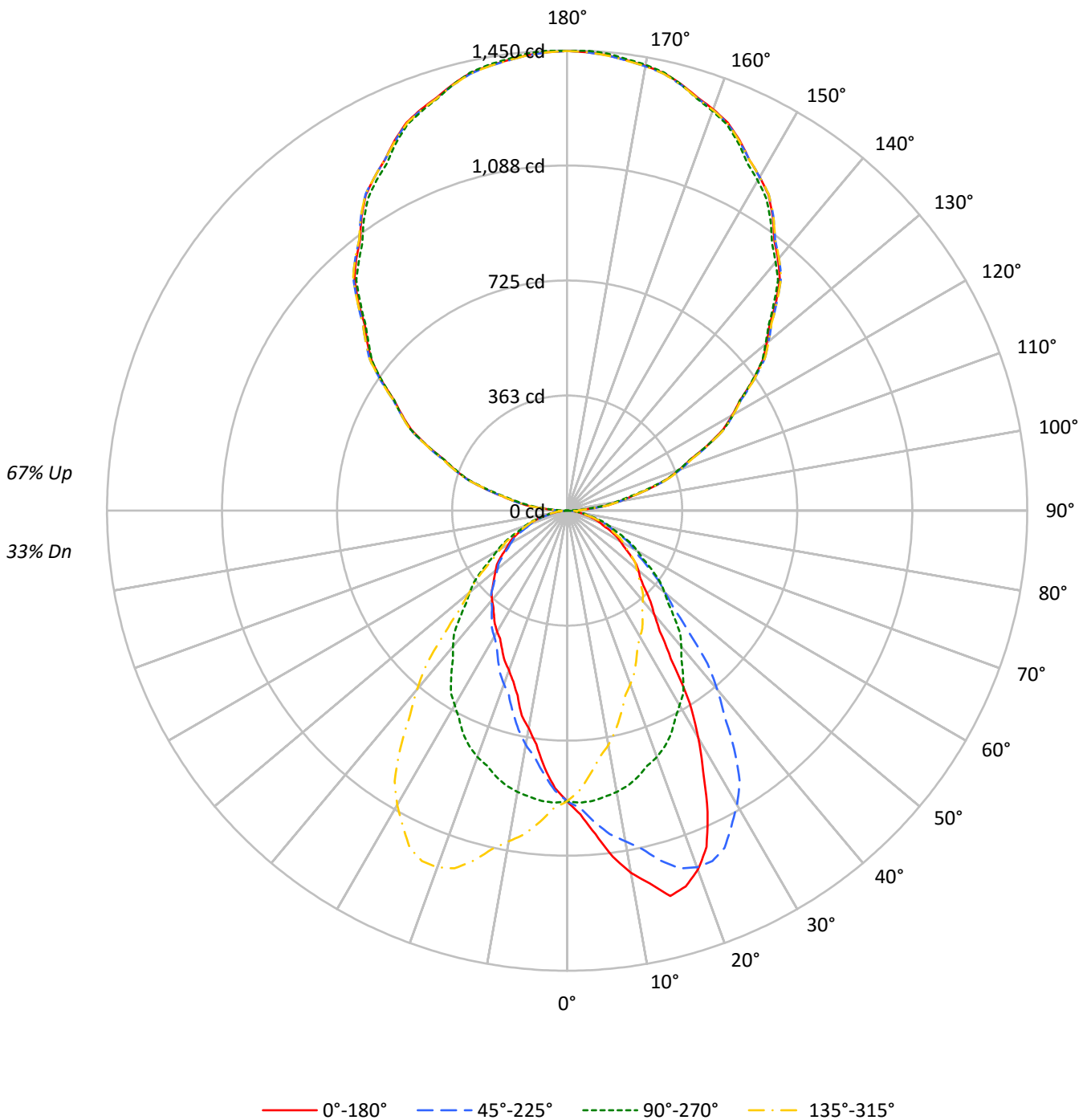
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	32	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°	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	1.4
10°-20°	253.6	4.2
20°-30°	368.0	6.1
30°-40°	388.4	6.4
40°-50°	343.9	5.7
50°-60°	274.4	4.5
60°-70°	186.5	3.1
70°-80°	95.6	1.6
80°-90°	28.8	0.5
90°-100°	91.8	1.5
100°-110°	285.0	4.7
110°-120°	487.2	8.0
120°-130°	640.7	10.5
130°-140°	719.1	11.8
140°-150°	705.1	11.6
150°-160°	591.4	9.7
160°-170°	392.2	6.5
170°-180°	137.1	2.3
0°-30°	708.8	11.7
0°-40°	1097.2	18.1
0°-60°	1715.5	28.2
0°-90°	2026.5	33.4
90°-120°	864.0	14.2
90°-150°	2928.8	48.2
90°-180°	4050.0	66.7
0°-180°	6076.0	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	22
90°	42	1	42	1	42	19
95°	76	64	76	64	76	84
105°	271	263	271	263	271	285
115°	489	489	489	489	489	483
125°	714	711	714	711	714	636
135°	931	920	931	920	931	717
145°	1129	1117	1129	1117	1129	705
155°	1287	1277	1287	1277	1287	592
165°	1391	1390	1391	1390	1391	392
175°	1441	1446	1441	1446	1441	137
180°	1448	1448	1448	1448	1448	



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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°	15.6	15.6	15.8	15.5	15.5	15.7	15.8	15.6	16.0	16.4	15.6
90°	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7	42.2	42.8	36.8
92.5°	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1	38.9	38.8	37.4
95°	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2	78.2	78.2	77.7
97.5°	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5	131.5	131.5	130.4
100°	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6	168.6	168.6	167.9
102.5°	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2	209.0	208.8	207.7
105°	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9	269.4	268.9	268.3
107.5°	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5	335.4	335.1	335.1
110°	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1	380.1	380.1	380.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7	425.4	426.0	426.2
115°	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2	493.5	493.7	494.3
117.5°	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4	560.1	560.7	562.2
120°	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7	603.7	603.7	605.9
122.5°	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4	650.0	650.6	652.1
125°	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0	717.8	718.6	719.4
127.5°	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7	783.6	784.6	785.6
130°	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6	828.0	828.6	829.2
132.5°	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2	872.4	873.5	873.5
135°	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7	935.9	936.1	935.7
137.5°	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3	997.6	997.8	997.0
140°	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8	1038.8	1038.8	1037.5
142.5°	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4	1076.2	1076.0	1075.1
145°	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5	1133.2	1132.9	1131.3
147.5°	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5	1182.9	1182.3	1181.2
150°	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6	1212.5
152.5°	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9	1243.6
155°	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2	1285.8	1284.5	1283.6
157.5°	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4	1322.5	1320.7	1320.1
160°	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4	1344.7	1343.1	1342.8
162.5°	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4	1364.5	1362.7	1362.4
165°	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1	1390.3	1388.4	1388.4
167.5°	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4	1411.6	1409.6	1409.7
170°	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1	1423.2	1421.4	1421.6
172.5°	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0	1432.1	1430.1	1430.4
175°	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5	1441.6	1439.6	1440.2
177.5°	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3	1445.8
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



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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°	14.6	13.4	12.3	11.9	10.4	9.7	7.9	6.4	6.8	7.2	7.3
90°	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2	4.5	7.7	11.0
92.5°	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8	24.1	26.6	28.9
95°	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5	66.3	69.0	71.7
97.5°	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1	118.5	120.9	123.3
100°	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2	157.4	159.6	161.7
102.5°	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2	198.0	199.7	201.5
105°	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8	263.5	264.4	265.2
107.5°	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7	330.9	332.2	333.3
110°	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8	374.4	376.0	377.7





TEST NUMBER: P331514-830

CATALOG NUMBER: S122DIW-S485D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7	421.3	422.9	424.6
115°	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9	490.5	492.1	493.7
117.5°	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8	560.0	562.1	564.3
120°	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	605.9	608.1	610.3
122.5°	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7	648.4	651.0	653.6
125°	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2	713.7	716.1	718.6
127.5°	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1	778.2	781.3	784.4
130°	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2	818.7	822.3	825.8
132.5°	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2	863.0	865.9	868.7
135°	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3	923.2	926.2	929.3
137.5°	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5	986.0	988.4	990.9
140°	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7	1024.2	1026.6	1029.1
142.5°	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8	1063.3	1065.7	1068.2
145°	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0	1119.0	1120.9	1122.8
147.5°	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2	1169.4	1171.7	1174.0
150°	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4	1203.0	1204.7	1206.3
152.5°	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7	1233.3	1234.9	1236.5
155°	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1	1278.0	1278.7	1279.6
157.5°	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0	1316.5	1317.1	1317.7
160°	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4	1340.0	1340.6	1341.1
162.5°	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9	1361.1	1361.2	1361.3
165°	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6	1389.3	1389.0	1388.7
167.5°	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5	1412.7	1411.9	1411.1
170°	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3	1425.4	1424.7	1423.8
172.5°	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0	1434.3	1433.4	1432.6
175°	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8	1445.0	1444.2	1443.3
177.5°	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2	1449.5	1448.9	1448.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331514-830

CATALOG NUMBER: S122DIW-S485D1240U830-4F0-1E-UDD-A1

**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°	7.6	8.3	9.2	10.4	11.3	12.3	11.8	11.7	11.6	10.9	10.9
90°	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7	41.2	40.6	40.4
92.5°	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1	39.2	39.3	39.4
95°	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2	78.2	78.2	77.9
97.5°	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5	131.5	131.5	131.5
100°	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6	168.6	168.6	168.5
102.5°	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2	209.4	209.6	209.6
105°	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9	270.5	271.1	271.4
107.5°	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5	335.7	336.0	335.5
110°	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	379.7



TEST NUMBER: P331514-830

CATALOG NUMBER: S122DIW-S485D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7	424.0	423.4	422.8
115°	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2	492.9	492.7	492.1
117.5°	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4	558.7	558.1	557.4
120°	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7	603.7	603.7	603.3
122.5°	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4	648.8	648.1	647.4
125°	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0	716.1	715.4	714.8
127.5°	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7	781.7	780.7	779.8
130°	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6	827.0	826.4	825.7
132.5°	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2	870.0	868.8	867.8
135°	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7	935.4	935.1	934.5
137.5°	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3	997.1	996.9	996.3
140°	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8	1038.8	1038.8	1038.3
142.5°	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4	1076.7	1076.9	1076.4
145°	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5	1133.8	1134.0	1133.6
147.5°	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5	1184.1	1184.7	1184.5
150°	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8
152.5°	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0
155°	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2	1288.5	1289.9	1290.2
157.5°	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4	1326.2	1328.0	1328.3
160°	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4	1348.0	1349.6	1349.9
162.5°	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4	1368.2	1370.1	1370.4
165°	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1	1394.0	1396.0	1396.2
167.5°	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4	1415.3	1417.2	1417.5
170°	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1	1427.0	1429.0	1429.1
172.5°	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0	1435.9	1437.8	1437.8
175°	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5	1445.4	1447.3	1447.5
177.5°	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331514-830

CATALOG NUMBER: S122DIW-S485D1240U830-4F0-1E-UDD-A1

**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°	10.9	10.7	10.7	10.6	10.7	10.7	10.9	10.9	10.9	11.6	11.7
90°	40.7	41.0	41.3	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7
92.5°	39.4	39.5	39.6	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1
95°	77.4	76.8	76.3	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2
97.5°	131.4	131.4	131.3	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5
100°	168.2	168.0	167.7	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6
102.5°	209.3	209.1	208.8	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2
105°	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9
107.5°	334.2	333.0	331.7	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5
110°	378.9	378.1	377.2	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1



TEST NUMBER: P331514-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.2	421.6	421.0	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7
115°	491.3	490.5	489.7	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2
117.5°	556.6	555.7	555.0	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4
120°	602.5	601.7	600.9	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7
122.5°	646.9	646.2	645.6	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4
125°	714.5	714.3	714.0	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0
127.5°	778.9	778.1	777.2	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7
130°	824.5	823.5	822.4	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6
132.5°	867.0	866.0	865.2	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2
135°	933.7	932.9	932.1	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7
137.5°	995.1	994.1	993.0	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3
140°	1037.2	1036.1	1035.0	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8
142.5°	1075.3	1074.2	1073.2	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4
145°	1132.6	1131.4	1130.4	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5
147.5°	1183.5	1182.4	1181.4	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5
150°	1216.1	1215.2	1214.4	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2
152.5°	1247.9	1247.0	1245.9	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0
155°	1289.4	1288.5	1287.7	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2
157.5°	1327.0	1325.7	1324.4	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4
160°	1348.9	1347.7	1346.7	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4
162.5°	1369.0	1367.7	1366.4	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4
165°	1394.9	1393.5	1392.1	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1
167.5°	1416.1	1414.7	1413.2	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4
170°	1427.5	1425.9	1424.2	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1
172.5°	1436.2	1434.6	1433.0	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0
175°	1445.8	1444.2	1442.6	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5
177.5°	1449.3	1447.9	1446.6	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331514-830

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**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°	11.8	12.3	11.3	10.4	9.2	8.3	7.6	7.3	7.2	6.8	6.4
90°	42.2	42.8	36.8	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2
92.5°	38.9	38.8	37.4	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8
95°	78.2	78.2	77.7	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5
97.5°	131.5	131.5	130.4	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1
100°	168.6	168.6	167.9	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2
102.5°	209.0	208.8	207.7	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2
105°	269.4	268.9	268.3	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8
107.5°	335.4	335.1	335.1	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7
110°	380.1	380.1	380.1	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8



TEST NUMBER: P331514-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.4	426.0	426.2	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7
115°	493.5	493.7	494.3	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9
117.5°	560.1	560.7	562.2	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8
120°	603.7	603.7	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7
122.5°	650.0	650.6	652.1	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7
125°	717.8	718.6	719.4	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2
127.5°	783.6	784.6	785.6	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1
130°	828.0	828.6	829.2	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2
132.5°	872.4	873.5	873.5	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2
135°	935.9	936.1	935.7	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3
137.5°	997.6	997.8	997.0	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5
140°	1038.8	1038.8	1037.5	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7
142.5°	1076.2	1076.0	1075.1	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8
145°	1133.2	1132.9	1131.3	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0
147.5°	1182.9	1182.3	1181.2	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2
150°	1214.4	1213.6	1212.5	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4
152.5°	1245.9	1244.9	1243.6	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7
155°	1285.8	1284.5	1283.6	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1
157.5°	1322.5	1320.7	1320.1	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0
160°	1344.7	1343.1	1342.8	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4
162.5°	1364.5	1362.7	1362.4	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9
165°	1390.3	1388.4	1388.4	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6
167.5°	1411.6	1409.6	1409.7	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5
170°	1423.2	1421.4	1421.6	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3
172.5°	1432.1	1430.1	1430.4	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0
175°	1441.6	1439.6	1440.2	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8
177.5°	1446.6	1445.3	1445.8	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331514-830

CATALOG NUMBER: S122DIW-S485D1240U830-4F0-1E-UDD-A1

**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°	7.9	9.7	10.4	11.9	12.3	13.4	14.6	15.6	16.4	16.0	15.6
90°	4.5	7.7	11.0	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7
92.5°	24.1	26.6	28.9	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1
95°	66.3	69.0	71.7	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2
97.5°	118.5	120.9	123.3	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5
100°	157.4	159.6	161.7	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6
102.5°	198.0	199.7	201.5	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2
105°	263.5	264.4	265.2	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9
107.5°	330.9	332.2	333.3	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5
110°	374.4	376.0	377.7	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	421.3	422.9	424.6	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7
115°	490.5	492.1	493.7	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2
117.5°	560.0	562.1	564.3	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4
120°	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7
122.5°	648.4	651.0	653.6	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4
125°	713.7	716.1	718.6	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0
127.5°	778.2	781.3	784.4	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7
130°	818.7	822.3	825.8	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6
132.5°	863.0	865.9	868.7	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2
135°	923.2	926.2	929.3	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7
137.5°	986.0	988.4	990.9	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3
140°	1024.2	1026.6	1029.1	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8
142.5°	1063.3	1065.7	1068.2	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4
145°	1119.0	1120.9	1122.8	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5
147.5°	1169.4	1171.7	1174.0	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5
150°	1203.0	1204.7	1206.3	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2
152.5°	1233.3	1234.9	1236.5	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0
155°	1278.0	1278.7	1279.6	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2
157.5°	1316.5	1317.1	1317.7	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4
160°	1340.0	1340.6	1341.1	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4
162.5°	1361.1	1361.2	1361.3	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4
165°	1389.3	1389.0	1388.7	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1
167.5°	1412.7	1411.9	1411.1	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4
170°	1425.4	1424.7	1423.8	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1
172.5°	1434.3	1433.4	1432.6	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0
175°	1445.0	1444.2	1443.3	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5
177.5°	1449.5	1448.9	1448.2	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



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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°	15.8	15.7	15.5	15.5	15.8	15.6	15.6
90°	41.2	40.6	40.4	40.7	41.0	41.3	41.6
92.5°	39.2	39.3	39.4	39.4	39.5	39.6	39.6
95°	78.2	78.2	77.9	77.4	76.8	76.3	75.8
97.5°	131.5	131.5	131.5	131.4	131.4	131.3	131.3
100°	168.6	168.6	168.5	168.2	168.0	167.7	167.4
102.5°	209.4	209.6	209.6	209.3	209.1	208.8	208.5
105°	270.5	271.1	271.4	271.4	271.4	271.4	271.4
107.5°	335.7	336.0	335.5	334.2	333.0	331.7	330.5
110°	380.1	380.1	379.7	378.9	378.1	377.2	376.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	424.0	423.4	422.8	422.2	421.6	421.0	420.4
115°	492.9	492.7	492.1	491.3	490.5	489.7	488.9
117.5°	558.7	558.1	557.4	556.6	555.7	555.0	554.1
120°	603.7	603.7	603.3	602.5	601.7	600.9	600.1
122.5°	648.8	648.1	647.4	646.9	646.2	645.6	645.1
125°	716.1	715.4	714.8	714.5	714.3	714.0	713.7
127.5°	781.7	780.7	779.8	778.9	778.1	777.2	776.3
130°	827.0	826.4	825.7	824.5	823.5	822.4	821.2
132.5°	870.0	868.8	867.8	867.0	866.0	865.2	864.3
135°	935.4	935.1	934.5	933.7	932.9	932.1	931.2
137.5°	997.1	996.9	996.3	995.1	994.1	993.0	991.9
140°	1038.8	1038.8	1038.3	1037.2	1036.1	1035.0	1034.0
142.5°	1076.7	1076.9	1076.4	1075.3	1074.2	1073.2	1072.0
145°	1133.8	1134.0	1133.6	1132.6	1131.4	1130.4	1129.3
147.5°	1184.1	1184.7	1184.5	1183.5	1182.4	1181.4	1180.3
150°	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6
152.5°	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9
155°	1288.5	1289.9	1290.2	1289.4	1288.5	1287.7	1286.9
157.5°	1326.2	1328.0	1328.3	1327.0	1325.7	1324.4	1323.0
160°	1348.0	1349.6	1349.9	1348.9	1347.7	1346.7	1345.6
162.5°	1368.2	1370.1	1370.4	1369.0	1367.7	1366.4	1365.2
165°	1394.0	1396.0	1396.2	1394.9	1393.5	1392.1	1390.8
167.5°	1415.3	1417.2	1417.5	1416.1	1414.7	1413.2	1411.8
170°	1427.0	1429.0	1429.1	1427.5	1425.9	1424.2	1422.6
172.5°	1435.9	1437.8	1437.8	1436.2	1434.6	1433.0	1431.3
175°	1445.4	1447.3	1447.5	1445.8	1444.2	1442.6	1440.9
177.5°	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2

(END OF REPORT)