

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: P331513-930

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331513-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
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-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5790.4 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

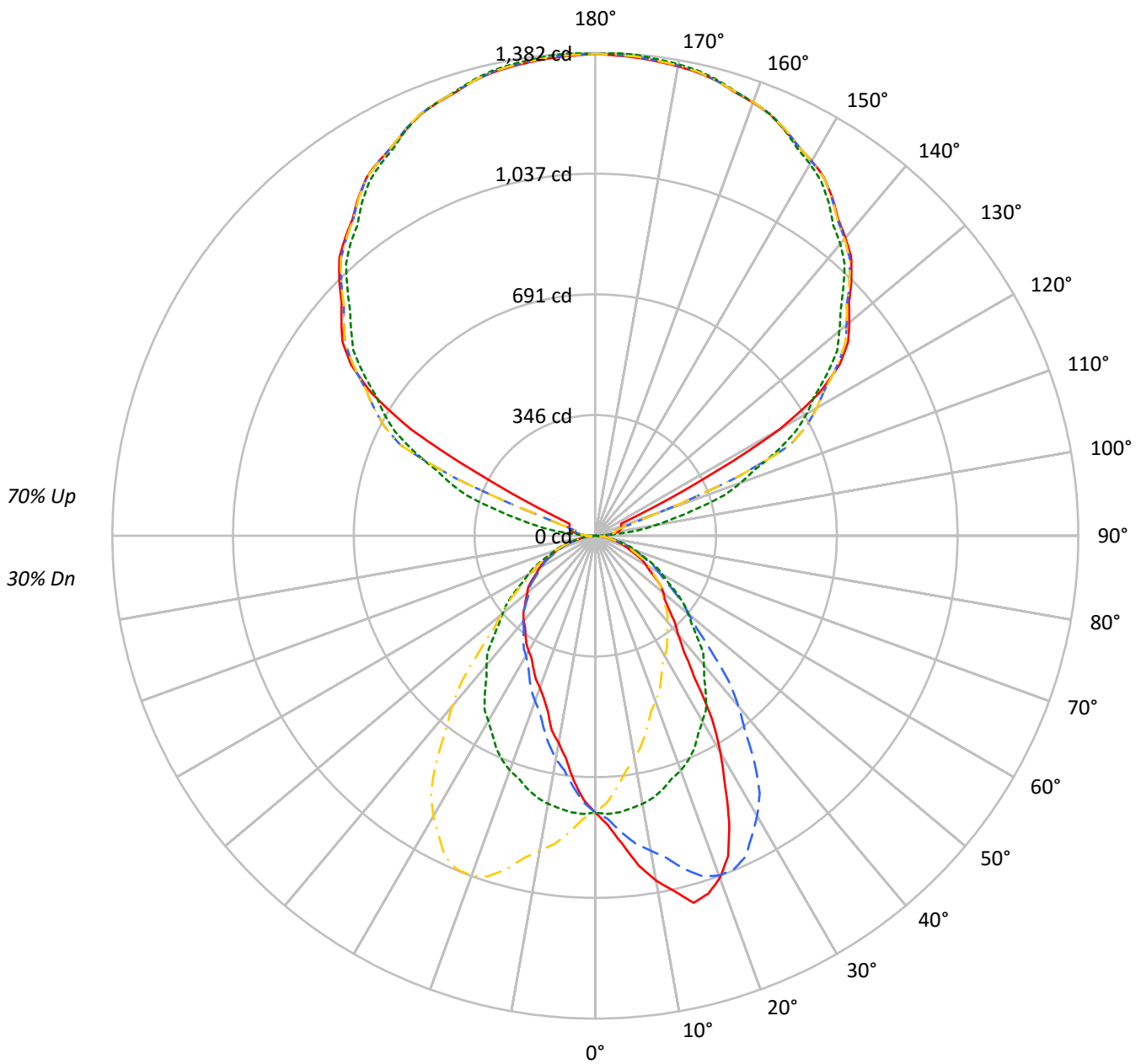
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.3
10°-20°	219.3	3.8
20°-30°	318.3	5.5
30°-40°	335.9	5.8
40°-50°	297.4	5.1
50°-60°	237.4	4.1
60°-70°	161.3	2.8
70°-80°	82.7	1.4
80°-90°	23.3	0.4
90°-100°	46.0	0.8
100°-110°	168.6	2.9
110°-120°	450.7	7.8
120°-130°	744.0	12.8
130°-140°	791.2	13.7
140°-150°	735.4	12.7
150°-160°	591.2	10.2
160°-170°	381.0	6.6
170°-180°	131.1	2.3
0°-30°	613.1	10.6
0°-40°	949.1	16.4
0°-60°	1483.9	25.6
0°-90°	1751.3	30.2
90°-120°	665.3	11.5
90°-150°	2935.8	50.7
90°-180°	4039.0	69.8
0°-180°	5790.4	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°	27	1	27	1	27	13
95°	43	65	43	65	43	40
105°	76	303	76	303	76	79
115°	82	574	82	574	82	205
125°	853	811	853	811	853	738
135°	1036	1003	1036	1003	1036	799
145°	1182	1164	1182	1164	1182	739
155°	1282	1282	1282	1282	1282	592
165°	1347	1350	1347	1350	1347	380
175°	1373	1381	1373	1381	1373	131
180°	1378	1378	1378	1378	1378	



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**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°	11.7	11.7	11.8	11.4	11.3	11.4	11.3	10.8	10.8	10.8	10.7
90°	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2	21.0	20.0	18.2
92.5°	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3	23.7	23.2	22.3
95°	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1	40.0	38.9	37.3
97.5°	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8	52.9	52.1	48.5
100°	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4	58.6	56.8	53.1
102.5°	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0	60.7	58.5	89.9
105°	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7	63.3	60.8	121.3
107.5°	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2	82.7	85.2	157.8
110°	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2	152.4	174.6	238.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5	359.4	440.2	456.1
115°	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1	512.7	615.4	609.8
117.5°	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9	656.7	681.6	677.8
120°	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4	733.7	731.0	727.1
122.5°	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3	779.7	778.1	773.8
125°	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9	844.3	842.8	838.5
127.5°	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5	903.3	901.0	897.8
130°	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4	940.9	938.5	936.0
132.5°	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2	978.0	976.0	973.5
135°	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7	1030.5	1028.3	1026.2
137.5°	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4	1079.3	1077.1	1074.8
140°	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0	1111.0	1109.1	1106.6
142.5°	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2	1140.4	1138.6	1135.7
145°	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9	1181.4	1179.8	1176.1
147.5°	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5	1217.3	1216.1	1212.4
150°	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3	1239.0	1237.7	1234.1
152.5°	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3	1259.0	1257.6	1254.3
155°	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2	1285.9	1284.6	1281.9
157.5°	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9	1308.4	1306.9	1305.0
160°	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1	1321.8	1320.5	1319.2
162.5°	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5	1333.9	1332.4	1331.3
165°	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4	1346.7
167.5°	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0	1361.5	1359.9	1359.3
170°	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5	1367.9	1366.4	1365.9
172.5°	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2	1372.6	1371.1	1370.7
175°	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4	1377.9	1376.3	1375.9
177.5°	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0	1378.8	1377.5	1377.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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°	10.6	10.3	9.9	9.9	8.7	8.2	6.8	5.5	5.8	6.0	6.0
90°	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1	19.9	19.7	19.5
95°	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8	57.5	50.2	42.9
97.5°	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7	108.0	87.4	66.9
100°	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5	146.2	115.8	85.4
102.5°	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2	222.7	216.3	209.9
105°	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2	309.8	316.5	323.1
107.5°	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6	392.9	398.3	403.7
110°	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8	446.5	451.1	455.8





TEST NUMBER: P331513-930

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8	497.0	501.1	505.2
115°	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5	577.2	581.0	584.7
117.5°	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5	649.7	653.9	658.1
120°	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1	701.5	704.7	708.1
122.5°	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8	746.3	749.8	753.3
125°	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8	813.7	816.6	819.5
127.5°	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5	875.6	878.8	882.1
130°	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6	915.1	918.7	922.2
132.5°	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5	954.5	957.5	960.5
135°	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3	1006.8	1010.4	1013.9
137.5°	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7	1058.3	1060.7	1063.2
140°	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1	1091.8	1093.6	1095.4
142.5°	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8	1120.4	1122.0	1123.6
145°	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8	1163.7	1163.4	1163.2
147.5°	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1	1202.3	1201.5	1200.6
150°	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7	1227.2	1225.6	1224.0
152.5°	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3	1248.5	1246.8	1245.0
155°	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6	1279.5	1277.6	1275.5
157.5°	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1	1304.4	1302.7	1301.1
160°	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1319.2	1317.8	1316.5
162.5°	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3	1331.9	1330.6	1329.3
165°	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4	1349.1	1347.7	1346.4
167.5°	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2	1361.8	1360.5	1359.2
170°	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4	1369.0	1367.7	1366.4
172.5°	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1	1373.8	1372.5	1371.1
175°	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3	1379.7	1378.2	1376.6
177.5°	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3	1381.0	1379.8	1378.6
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331513-930

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

**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°	6.3	6.4	6.6	6.9	7.0	7.2	7.2	7.3	7.6	7.3	7.5
90°	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2	23.2	24.4	25.2
92.5°	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3	24.9	25.4	25.8
95°	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1	42.2	43.3	43.8
97.5°	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8	54.7	55.6	56.2
100°	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4	62.1	63.9	65.1
102.5°	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0	65.4	67.7	69.1
105°	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7	68.2	70.6	72.2
107.5°	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2	77.7	75.3	74.4
110°	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2	108.0	85.9	75.3



TEST NUMBER: P331513-930

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5	197.7	116.8	76.7
115°	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1	307.5	204.9	145.6
117.5°	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9	607.1	582.3	543.6
120°	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4	739.0	741.7	728.1
122.5°	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3	782.9	784.5	782.4
125°	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9	847.4	849.0	850.0
127.5°	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5	907.8	910.0	911.3
130°	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4	945.8	948.2	949.3
132.5°	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2	982.2	984.3	985.2
135°	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7	1034.9	1037.1	1038.0
137.5°	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4	1083.6	1085.8	1086.5
140°	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0	1115.0	1117.0	1117.4
142.5°	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2	1144.0	1145.8	1146.1
145°	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9	1184.5	1186.0	1186.3
147.5°	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5	1219.6	1220.7	1220.8
150°	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3	1241.7	1243.0	1243.1
152.5°	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3	1261.6	1263.0	1262.9
155°	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2	1288.6	1289.9	1289.6
157.5°	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9	1311.4	1313.0	1312.8
160°	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1	1324.5	1325.8	1325.7
162.5°	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5	1336.9	1338.5	1338.2
165°	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6
167.5°	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0	1364.6	1366.1	1366.0
170°	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5	1371.0	1372.6	1372.3
172.5°	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2	1375.7	1377.3	1377.1
175°	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4	1381.0	1382.5	1382.2
177.5°	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0	1381.2	1382.5	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331513-930

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

**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°	7.6	7.4	7.5	7.3	7.5	7.4	7.6	7.5	7.3	7.6	7.3
90°	25.6	26.0	26.5	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2
92.5°	26.1	26.4	26.7	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3
95°	43.5	43.3	43.1	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1
97.5°	56.4	56.7	57.0	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8
100°	65.5	66.0	66.4	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4
102.5°	69.7	70.4	71.0	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0
105°	73.1	74.0	74.9	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7
107.5°	75.3	76.2	77.1	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2
110°	76.1	77.0	77.9	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2



TEST NUMBER: P331513-930

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	77.5	78.2	78.8	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5
115°	129.6	113.7	97.8	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1
117.5°	491.2	438.8	386.4	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9
120°	698.1	668.2	638.3	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4
122.5°	776.6	770.8	765.0	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3
125°	850.7	851.4	852.1	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9
127.5°	911.3	911.5	911.6	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5
130°	949.1	948.9	948.7	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4
132.5°	985.0	984.8	984.6	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2
135°	1037.5	1037.1	1036.7	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7
137.5°	1085.7	1085.0	1084.3	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4
140°	1116.3	1115.2	1114.1	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0
142.5°	1145.1	1143.9	1142.8	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2
145°	1185.1	1184.1	1182.9	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9
147.5°	1219.9	1219.0	1218.1	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5
150°	1242.0	1240.9	1239.7	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3
152.5°	1261.4	1260.0	1258.5	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3
155°	1287.8	1286.1	1284.3	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2
157.5°	1311.1	1309.4	1307.7	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9
160°	1324.1	1322.6	1321.0	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1
162.5°	1336.4	1334.4	1332.5	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5
165°	1352.0	1350.5	1348.9	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5
167.5°	1363.9	1362.0	1359.9	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0
170°	1370.4	1368.3	1366.4	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5
172.5°	1375.1	1373.1	1371.1	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2
175°	1380.0	1377.8	1375.5	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4
177.5°	1380.7	1379.1	1377.5	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331513-930

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**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°	7.2	7.2	7.0	6.9	6.6	6.4	6.3	6.0	6.0	5.8	5.5
90°	21.0	20.0	18.2	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0
92.5°	23.7	23.2	22.3	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1
95°	40.0	38.9	37.3	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8
97.5°	52.9	52.1	48.5	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7
100°	58.6	56.8	53.1	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5
102.5°	60.7	58.5	89.9	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2
105°	63.3	60.8	121.3	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2
107.5°	82.7	85.2	157.8	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6
110°	152.4	174.6	238.6	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	359.4	440.2	456.1	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8
115°	512.7	615.4	609.8	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5
117.5°	656.7	681.6	677.8	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5
120°	733.7	731.0	727.1	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1
122.5°	779.7	778.1	773.8	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8
125°	844.3	842.8	838.5	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8
127.5°	903.3	901.0	897.8	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5
130°	940.9	938.5	936.0	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6
132.5°	978.0	976.0	973.5	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5
135°	1030.5	1028.3	1026.2	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3
137.5°	1079.3	1077.1	1074.8	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7
140°	1111.0	1109.1	1106.6	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1
142.5°	1140.4	1138.6	1135.7	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8
145°	1181.4	1179.8	1176.1	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8
147.5°	1217.3	1216.1	1212.4	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1
150°	1239.0	1237.7	1234.1	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7
152.5°	1259.0	1257.6	1254.3	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3
155°	1285.9	1284.6	1281.9	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6
157.5°	1308.4	1306.9	1305.0	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1
160°	1321.8	1320.5	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5
162.5°	1333.9	1332.4	1331.3	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3
165°	1348.9	1347.4	1346.7	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4
167.5°	1361.5	1359.9	1359.3	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2
170°	1367.9	1366.4	1365.9	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4
172.5°	1372.6	1371.1	1370.7	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1
175°	1377.9	1376.3	1375.9	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3
177.5°	1378.8	1377.5	1377.3	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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	8.2	8.7	9.9	9.9	10.3	10.6	10.7	10.8	10.8	10.8
90°	3.4	5.9	8.3	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2
92.5°	19.9	19.7	19.5	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3
95°	57.5	50.2	42.9	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1
97.5°	108.0	87.4	66.9	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8
100°	146.2	115.8	85.4	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4
102.5°	222.7	216.3	209.9	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0
105°	309.8	316.5	323.1	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7
107.5°	392.9	398.3	403.7	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2
110°	446.5	451.1	455.8	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.0	501.1	505.2	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5
115°	577.2	581.0	584.7	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1
117.5°	649.7	653.9	658.1	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9
120°	701.5	704.7	708.1	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4
122.5°	746.3	749.8	753.3	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3
125°	813.7	816.6	819.5	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9
127.5°	875.6	878.8	882.1	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5
130°	915.1	918.7	922.2	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4
132.5°	954.5	957.5	960.5	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2
135°	1006.8	1010.4	1013.9	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7
137.5°	1058.3	1060.7	1063.2	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4
140°	1091.8	1093.6	1095.4	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0
142.5°	1120.4	1122.0	1123.6	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2
145°	1163.7	1163.4	1163.2	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9
147.5°	1202.3	1201.5	1200.6	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5
150°	1227.2	1225.6	1224.0	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3
152.5°	1248.5	1246.8	1245.0	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3
155°	1279.5	1277.6	1275.5	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2
157.5°	1304.4	1302.7	1301.1	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9
160°	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1
162.5°	1331.9	1330.6	1329.3	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5
165°	1349.1	1347.7	1346.4	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5
167.5°	1361.8	1360.5	1359.2	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0
170°	1369.0	1367.7	1366.4	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5
172.5°	1373.8	1372.5	1371.1	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2
175°	1379.7	1378.2	1376.6	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4
177.5°	1381.0	1379.8	1378.6	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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°	11.3	11.4	11.3	11.4	11.8	11.7	11.7
90°	23.2	24.4	25.2	25.6	26.0	26.5	26.9
92.5°	24.9	25.4	25.8	26.1	26.4	26.7	26.9
95°	42.2	43.3	43.8	43.5	43.3	43.1	42.9
97.5°	54.7	55.6	56.2	56.4	56.7	57.0	57.2
100°	62.1	63.9	65.1	65.5	66.0	66.4	66.9
102.5°	65.4	67.7	69.1	69.7	70.4	71.0	71.6
105°	68.2	70.6	72.2	73.1	74.0	74.9	75.8
107.5°	77.7	75.3	74.4	75.3	76.2	77.1	78.0
110°	108.0	85.9	75.3	76.1	77.0	77.9	78.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.7	116.8	76.7	77.5	78.2	78.8	79.6
115°	307.5	204.9	145.6	129.6	113.7	97.8	81.8
117.5°	607.1	582.3	543.6	491.2	438.8	386.4	333.9
120°	739.0	741.7	728.1	698.1	668.2	638.3	608.4
122.5°	782.9	784.5	782.4	776.6	770.8	765.0	759.1
125°	847.4	849.0	850.0	850.7	851.4	852.1	852.7
127.5°	907.8	910.0	911.3	911.3	911.5	911.6	911.7
130°	945.8	948.2	949.3	949.1	948.9	948.7	948.4
132.5°	982.2	984.3	985.2	985.0	984.8	984.6	984.4
135°	1034.9	1037.1	1038.0	1037.5	1037.1	1036.7	1036.2
137.5°	1083.6	1085.8	1086.5	1085.7	1085.0	1084.3	1083.5
140°	1115.0	1117.0	1117.4	1116.3	1115.2	1114.1	1113.0
142.5°	1144.0	1145.8	1146.1	1145.1	1143.9	1142.8	1141.7
145°	1184.5	1186.0	1186.3	1185.1	1184.1	1182.9	1181.9
147.5°	1219.6	1220.7	1220.8	1219.9	1219.0	1218.1	1217.2
150°	1241.7	1243.0	1243.1	1242.0	1240.9	1239.7	1238.7
152.5°	1261.6	1263.0	1262.9	1261.4	1260.0	1258.5	1257.0
155°	1288.6	1289.9	1289.6	1287.8	1286.1	1284.3	1282.5
157.5°	1311.4	1313.0	1312.8	1311.1	1309.4	1307.7	1305.9
160°	1324.5	1325.8	1325.7	1324.1	1322.6	1321.0	1319.5
162.5°	1336.9	1338.5	1338.2	1336.4	1334.4	1332.5	1330.6
165°	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4
167.5°	1364.6	1366.1	1366.0	1363.9	1362.0	1359.9	1358.0
170°	1371.0	1372.6	1372.3	1370.4	1368.3	1366.4	1364.3
172.5°	1375.7	1377.3	1377.1	1375.1	1373.1	1371.1	1369.1
175°	1381.0	1382.5	1382.2	1380.0	1377.8	1375.5	1373.3
177.5°	1381.2	1382.5	1382.3	1380.7	1379.1	1377.5	1375.9
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3

(END OF REPORT)