

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: P331507-927

Luminaire Tested: **S122DIW-S485D970U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331507-927  
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-S485D970U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4766.6 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

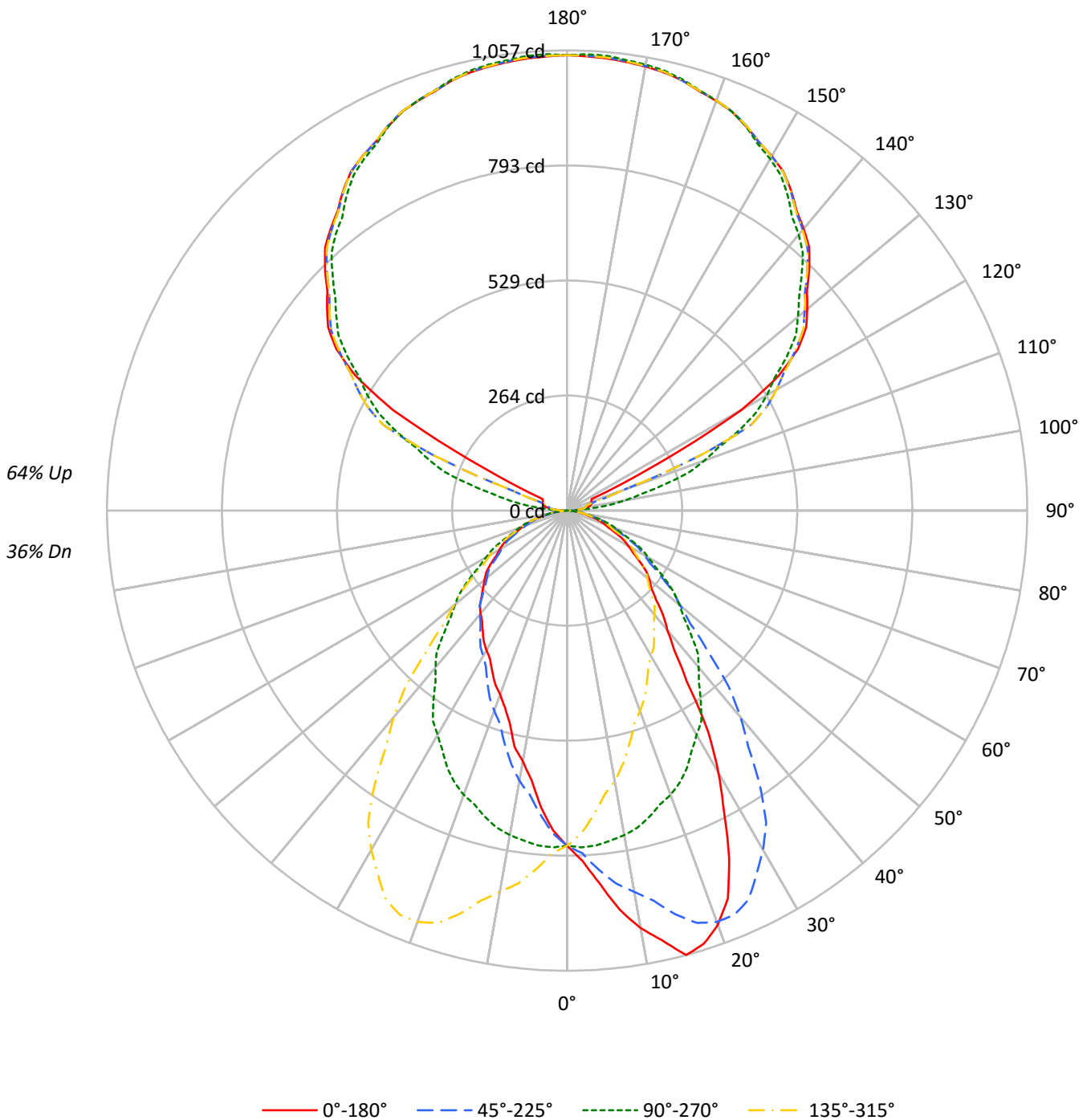
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	38	38	37	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	61	50	42	37	56	46	39	34	38	32	29	30	26	24	23	20	19	15
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	12429	12429	12429	12429
5°	13935	12511	11086	12511
10°	15967	12408	9594	12408
15°	17665	12179	8476	12179
20°	17395	11936	7727	11936
25°	15684	11610	7252	11610
30°	12961	11091	6906	11091
35°	9447	10549	6660	10549
40°	7546	9908	6521	9908
45°	6594	9168	6336	9168
50°	6199	8450	6212	8450
55°	5714	7721	6046	7721
60°	5238	6946	5790	6946
65°	4768	6250	5540	6250
70°	4329	5570	5169	5570
75°	3843	4816	4579	4816
80°	3301	3989	3682	3989
85°	2964	2964	2186	2964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	1.5
10°-20°	213.1	4.5
20°-30°	309.3	6.5
30°-40°	326.4	6.8
40°-50°	289.0	6.1
50°-60°	230.6	4.8
60°-70°	156.8	3.3
70°-80°	80.4	1.7
80°-90°	22.0	0.5
90°-100°	34.9	0.7
100°-110°	128.0	2.7
110°-120°	342.1	7.2
120°-130°	564.7	11.8
130°-140°	600.5	12.6
140°-150°	558.1	11.7
150°-160°	448.7	9.4
160°-170°	289.2	6.1
170°-180°	99.5	2.1
0°-30°	595.8	12.5
0°-40°	922.2	19.3
0°-60°	1441.8	30.2
0°-90°	1700.9	35.7
90°-120°	504.9	10.6
90°-150°	2228.2	46.7
90°-180°	3066.0	64.3
0°-180°	4766.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	860	772	684	772	860	86
15°	1057	729	507	729	1057	292
25°	880	652	407	652	880	398
35°	479	535	338	535	479	312
45°	289	402	278	402	289	227
55°	203	274	215	274	203	182
65°	125	164	145	164	125	124
75°	62	77	73	77	62	66
85°	16	16	12	16	16	18
90°	20	1	20	1	20	10
95°	33	49	33	49	33	30
105°	58	230	58	230	58	60
115°	62	435	62	435	62	155
125°	647	615	647	615	647	560
135°	786	762	786	762	786	606
145°	897	883	897	883	897	561
155°	973	973	973	973	973	449
165°	1023	1025	1023	1025	1023	289
175°	1042	1048	1042	1048	1042	99
180°	1046	1046	1046	1046	1046	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	805.3	805.6	806.0	802.2	801.8	801.8	798.4	795.6	792.3	787.7	788.2
5°	859.8	863.0	864.2	860.6	855.3	854.7	849.7	841.4	833.7	827.5	823.1
7.5°	924.7	926.0	923.1	918.5	914.5	907.4	898.0	888.8	876.0	864.2	855.5
10°	973.9	975.7	970.7	963.8	958.2	950.0	936.4	922.4	905.6	889.3	876.3
12.5°	1011.3	1015.7	1009.2	1008.4	998.7	987.4	971.1	964.1	940.4	917.7	903.7
15°	1056.8	1056.5	1057.1	1051.5	1044.3	1042.6	1025.4	1006.8	973.4	960.0	936.9
17.5°	1043.6	1048.1	1050.2	1050.1	1050.0	1048.8	1043.3	1031.6	1014.8	993.2	966.6
20°	1012.4	1018.3	1019.2	1026.0	1029.8	1034.9	1037.0	1033.7	1023.3	1005.3	982.2
22.5°	964.1	965.7	968.5	979.1	987.5	1000.1	1006.6	1017.6	1013.6	1004.8	985.6
25°	880.4	877.5	887.8	893.2	912.4	932.5	947.0	963.0	977.2	985.8	980.2
27.5°	780.0	775.5	791.1	805.2	820.8	842.6	865.1	891.8	914.0	941.8	951.3
30°	695.2	697.9	712.7	727.8	751.5	782.2	807.6	836.9	868.6	899.7	921.2
32.5°	603.9	614.1	623.4	646.6	667.4	701.7	739.0	775.6	815.2	850.4	883.8
35°	479.3	491.1	504.1	521.0	550.2	584.3	620.7	670.1	724.0	772.1	811.8
37.5°	403.4	401.6	409.0	421.2	444.9	472.4	514.2	563.1	626.5	683.1	739.0
40°	358.0	356.8	362.1	373.4	391.4	411.5	448.2	491.1	550.0	619.2	685.8
42.5°	326.7	327.4	330.4	338.3	350.7	367.3	394.7	431.3	485.1	550.3	621.9
45°	288.8	290.8	294.1	297.9	305.0	318.6	334.0	360.0	402.7	457.1	527.5
47.5°	261.4	261.5	264.7	268.2	272.4	280.0	292.6	309.0	339.0	383.3	443.9
50°	246.8	244.6	247.0	249.7	254.1	259.4	267.8	283.1	303.2	339.1	389.6
52.5°	228.8	228.8	230.9	232.0	235.9	241.2	248.8	259.4	277.7	305.7	347.3
55°	203.0	204.5	205.7	207.4	211.0	214.8	220.7	227.8	242.0	263.0	293.7
57.5°	178.7	179.2	180.4	183.7	186.0	189.5	195.1	201.6	210.8	226.4	249.5
60°	162.2	162.2	164.5	166.0	168.9	172.5	176.9	183.2	191.4	204.1	222.8
62.5°	146.9	146.7	147.7	150.1	152.3	155.7	160.1	165.4	173.2	184.5	199.8
65°	124.8	124.3	126.0	126.6	129.0	132.2	135.8	141.4	147.7	155.9	169.5
67.5°	103.5	104.3	105.2	106.3	107.7	111.1	113.4	117.4	122.6	129.5	138.8
70°	91.7	91.7	91.7	92.6	94.3	96.2	98.5	101.8	106.8	112.7	121.0
72.5°	78.4	79.4	80.3	79.9	82.1	83.1	86.0	87.8	92.6	96.4	103.7
75°	61.6	61.6	61.6	63.0	63.9	64.8	66.5	68.4	70.7	75.4	79.3
77.5°	45.9	45.8	46.1	46.4	47.4	48.5	49.0	50.6	52.8	55.0	58.2
80°	35.5	36.1	36.4	37.0	37.0	37.5	37.9	39.9	41.4	42.9	45.0
82.5°	27.5	27.6	27.6	27.7	28.0	28.4	29.1	29.8	30.3	31.5	33.1
85°	16.0	15.7	15.7	16.2	16.0	16.0	16.6	17.2	17.2	17.4	18.4
87.5°	10.2	10.1	10.4	10.1	10.0	10.1	9.9	9.5	9.6	9.7	9.6
90°	20.4	20.1	19.7	19.4	19.1	18.5	17.7	16.8	16.0	15.1	13.8
92.5°	20.4	20.2	20.0	19.8	19.6	19.3	18.9	18.5	18.0	17.6	16.9
95°	32.6	32.7	32.9	33.0	33.2	32.9	32.1	31.2	30.3	29.5	28.4
97.5°	43.4	43.3	43.0	42.9	42.6	42.2	41.5	40.9	40.2	39.5	36.8
100°	50.7	50.4	50.1	49.7	49.4	48.6	47.2	45.9	44.5	43.2	40.3
102.5°	54.3	53.9	53.4	52.9	52.4	51.3	49.6	47.8	46.1	44.4	68.3
105°	57.5	56.9	56.2	55.5	54.8	53.6	51.7	49.9	48.0	46.2	92.1
107.5°	59.2	58.5	57.8	57.2	56.5	57.1	59.0	60.8	62.7	64.6	119.7
110°	59.8	59.1	58.5	57.8	57.1	65.2	82.0	98.8	115.7	132.5	181.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	60.4	59.9	59.3	58.8	58.2	88.6	150.0	211.4	272.7	334.1	346.1
115°	62.1	74.1	86.3	98.4	110.5	155.5	233.4	311.2	389.1	467.1	462.9
117.5°	253.4	293.3	333.0	372.8	412.6	442.0	460.8	479.6	498.4	517.3	514.4
120°	461.8	484.4	507.2	529.9	552.5	562.9	560.9	558.9	556.9	554.8	551.8
122.5°	576.2	580.6	585.0	589.4	593.8	595.4	594.2	593.0	591.8	590.6	587.2
125°	647.2	646.7	646.2	645.7	645.2	644.4	643.2	642.0	640.8	639.6	636.4
127.5°	692.0	691.9	691.8	691.7	691.6	690.7	689.0	687.3	685.6	683.8	681.4
130°	719.9	720.0	720.2	720.3	720.6	719.7	717.9	716.0	714.2	712.3	710.4
132.5°	747.1	747.3	747.4	747.6	747.8	747.1	745.5	743.9	742.4	740.8	738.9
135°	786.5	786.8	787.1	787.5	787.8	787.1	785.4	783.8	782.1	780.5	778.9
137.5°	822.4	822.9	823.5	824.1	824.7	824.1	822.4	820.8	819.2	817.5	815.8
140°	844.8	845.6	846.4	847.3	848.1	847.8	846.3	844.8	843.3	841.8	839.9
142.5°	866.6	867.4	868.2	869.1	869.9	869.7	868.3	866.9	865.5	864.1	862.1
145°	897.0	897.9	898.7	899.5	900.4	900.2	899.0	897.9	896.7	895.5	892.6
147.5°	923.8	924.5	925.2	925.9	926.6	926.5	925.7	924.8	923.9	923.1	920.2
150°	940.2	941.0	941.8	942.7	943.5	943.4	942.4	941.4	940.4	939.4	936.7
152.5°	954.1	955.2	956.3	957.4	958.5	958.5	957.5	956.6	955.5	954.5	952.0
155°	973.4	974.8	976.1	977.5	978.8	979.0	977.9	977.0	976.0	974.9	973.0
157.5°	991.2	992.4	993.8	995.1	996.4	996.5	995.4	994.2	993.1	991.9	990.5
160°	1001.5	1002.7	1003.8	1005.0	1006.2	1006.2	1005.2	1004.2	1003.2	1002.2	1001.2
162.5°	1010.0	1011.4	1012.8	1014.2	1015.7	1015.9	1014.7	1013.6	1012.4	1011.3	1010.4
165°	1022.6	1023.8	1025.0	1026.2	1027.4	1027.4	1026.2	1025.0	1023.8	1022.6	1022.2
167.5°	1030.7	1032.2	1033.7	1035.2	1036.7	1036.9	1035.7	1034.5	1033.3	1032.2	1031.7
170°	1035.5	1037.0	1038.6	1040.1	1041.6	1041.7	1040.5	1039.4	1038.2	1037.0	1036.7
172.5°	1039.2	1040.7	1042.2	1043.7	1045.2	1045.4	1044.2	1043.0	1041.9	1040.7	1040.3
175°	1042.4	1044.0	1045.7	1047.3	1049.1	1049.3	1048.1	1046.9	1045.8	1044.6	1044.3
177.5°	1044.3	1045.5	1046.7	1047.9	1049.2	1049.2	1048.3	1047.4	1046.5	1045.5	1045.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	789.9	788.0	786.8	782.6	778.8	775.0	773.8	774.3	769.1	764.1	762.0
5°	820.7	814.8	809.1	801.1	791.7	781.3	776.0	771.9	761.5	750.3	743.8
7.5°	848.3	839.8	828.9	814.0	800.2	783.9	773.5	764.4	749.2	733.3	723.7
10°	865.1	853.5	839.6	821.3	804.4	784.6	770.7	756.8	739.0	720.1	708.3
12.5°	879.5	864.0	850.2	826.7	806.8	782.0	765.5	745.9	727.2	704.7	693.1
15°	913.9	885.2	859.1	832.5	807.9	773.3	755.0	728.6	704.1	676.3	663.0
17.5°	940.4	908.2	867.2	833.4	804.7	766.4	739.4	707.9	678.8	647.1	629.0
20°	955.6	918.6	874.5	834.3	799.9	756.2	726.9	694.7	660.6	624.8	605.3
22.5°	964.6	925.7	882.1	830.8	790.5	747.9	711.1	675.7	641.2	602.6	582.1
25°	967.4	931.9	885.7	827.8	778.6	730.5	686.0	651.7	610.1	573.9	544.1
27.5°	953.3	927.9	883.5	822.2	765.0	708.6	659.2	620.3	576.2	537.1	507.0
30°	936.0	921.2	878.1	816.5	754.1	693.5	639.1	594.9	551.2	511.5	480.8
32.5°	909.3	906.1	868.2	808.5	742.5	674.3	618.0	573.4	524.9	485.9	456.6
35°	856.7	871.0	847.0	790.5	720.6	647.1	586.1	535.2	484.9	447.6	420.1
37.5°	786.4	821.7	815.4	764.1	691.2	617.3	550.0	496.9	448.9	411.3	384.3
40°	737.8	782.8	789.3	744.0	670.4	594.4	523.1	470.1	423.3	389.0	361.8
42.5°	685.8	738.3	756.2	719.9	647.7	570.2	498.9	444.1	397.8	364.4	340.3
45°	598.5	668.0	700.3	679.5	609.7	530.4	457.1	401.5	359.5	328.1	309.4
47.5°	516.9	592.9	636.3	628.9	567.5	489.0	416.5	363.1	322.3	297.2	280.5
50°	459.1	537.3	589.6	592.0	537.3	459.5	386.7	336.4	298.8	275.4	261.8
52.5°	409.0	483.5	540.7	553.2	503.4	428.6	359.9	309.9	276.8	255.3	243.1
55°	343.5	406.5	469.8	492.9	453.0	381.9	318.3	274.3	243.2	228.4	217.8
57.5°	285.6	338.1	396.6	422.1	397.4	336.7	277.0	238.8	213.6	200.6	192.4
60°	255.0	296.4	348.5	379.0	357.7	303.6	251.4	215.1	194.4	182.8	175.2
62.5°	226.6	263.3	307.3	335.2	323.6	272.5	225.9	193.8	175.9	165.1	159.5
65°	187.0	215.9	250.0	275.8	268.1	229.3	191.2	163.6	149.4	140.9	136.4
67.5°	153.9	174.9	198.5	221.0	214.8	187.4	156.8	135.3	124.7	117.3	114.7
70°	133.2	149.1	170.1	188.1	183.2	160.7	136.4	118.0	108.8	102.7	100.0
72.5°	113.3	126.4	142.4	157.2	153.8	135.1	114.9	101.0	94.0	88.2	86.0
75°	85.5	95.5	105.4	115.1	114.2	99.7	87.9	77.2	71.6	67.2	66.3
77.5°	63.1	68.8	75.4	81.2	79.6	71.3	62.0	55.9	51.8	48.8	48.3
80°	48.2	51.5	56.2	60.4	58.3	54.7	47.4	42.9	39.9	37.0	35.8
82.5°	34.9	38.3	41.0	43.3	41.7	38.4	33.8	30.8	29.1	27.0	26.5
85°	18.4	20.1	21.3	21.9	21.3	19.3	17.2	16.0	14.5	13.6	13.3
87.5°	9.6	9.3	9.0	9.2	8.2	7.8	6.4	5.4	5.5	5.6	5.5
90°	12.4	11.1	9.7	8.2	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	16.2	15.5	14.9	14.7	14.8	15.0	15.1	15.3	15.1	15.0	14.8
95°	27.2	26.0	24.8	27.0	32.6	38.1	43.6	49.2	43.6	38.1	32.6
97.5°	34.1	31.4	28.6	35.1	50.7	66.4	82.0	97.7	82.0	66.4	50.7
100°	37.4	34.5	31.7	41.8	64.9	87.9	110.9	134.0	110.9	87.9	64.9
102.5°	92.2	116.1	140.1	154.4	159.3	164.2	169.1	174.0	169.1	164.2	159.3
105°	138.0	183.9	229.9	250.3	245.3	240.2	235.2	230.1	235.2	240.2	245.3
107.5°	174.8	229.9	284.9	310.5	306.3	302.3	298.3	294.1	298.3	302.3	306.3
110°	229.7	278.3	326.9	349.4	345.9	342.4	338.9	335.3	338.9	342.4	345.9





TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	358.1	370.2	382.1	386.6	383.5	380.3	377.2	374.1	377.2	380.3	383.5
115°	458.6	454.4	450.2	446.7	443.9	441.0	438.1	435.2	438.1	441.0	443.9
117.5°	511.5	508.7	505.7	502.7	499.5	496.3	493.1	489.9	493.1	496.3	499.5
120°	548.8	545.7	542.7	540.0	537.4	534.9	532.4	529.9	532.4	534.9	537.4
122.5°	584.0	580.7	577.4	574.4	571.7	569.1	566.4	563.8	566.4	569.1	571.7
125°	633.3	630.0	626.9	624.2	621.9	619.8	617.6	615.4	617.6	619.8	621.9
127.5°	679.1	676.7	674.3	671.8	669.5	667.0	664.6	662.2	664.6	667.0	669.5
130°	708.6	706.7	704.9	702.6	699.9	697.3	694.6	691.9	694.6	697.3	699.9
132.5°	737.0	735.2	733.3	731.3	729.0	726.7	724.5	722.2	724.5	726.7	729.0
135°	777.4	775.9	774.4	772.3	769.6	766.9	764.2	761.5	764.2	766.9	769.6
137.5°	814.0	812.4	810.6	808.8	807.0	805.1	803.2	801.3	803.2	805.1	807.0
140°	838.0	836.1	834.3	832.7	831.4	830.0	828.7	827.4	828.7	830.0	831.4
142.5°	859.9	857.8	855.6	854.0	852.8	851.6	850.3	849.1	850.3	851.6	852.8
145°	889.8	886.9	884.1	882.7	882.9	883.0	883.2	883.4	883.2	883.0	882.9
147.5°	917.3	914.6	911.7	910.6	911.2	911.9	912.5	913.2	912.5	911.9	911.2
150°	934.0	931.3	928.6	927.9	929.1	930.2	931.4	932.6	931.4	930.2	929.1
152.5°	949.4	946.8	944.3	943.6	945.0	946.3	947.6	949.0	947.6	946.3	945.0
155°	970.9	968.9	966.9	966.6	968.1	969.6	971.1	972.7	971.1	969.6	968.1
157.5°	989.1	987.7	986.3	986.2	987.5	988.7	990.1	991.3	990.1	988.7	987.5
160°	1000.2	999.2	998.1	998.1	999.2	1000.2	1001.2	1002.2	1001.2	1000.2	999.2
162.5°	1009.6	1008.7	1007.8	1007.9	1008.8	1009.9	1010.9	1011.9	1010.9	1009.9	1008.8
165°	1021.6	1021.1	1020.6	1020.9	1021.9	1022.9	1023.9	1024.9	1023.9	1022.9	1021.9
167.5°	1031.3	1030.8	1030.3	1030.5	1031.6	1032.6	1033.6	1034.6	1033.6	1032.6	1031.6
170°	1036.3	1036.0	1035.7	1036.0	1037.0	1038.1	1039.0	1040.1	1039.0	1038.1	1037.0
172.5°	1040.0	1039.7	1039.3	1039.7	1040.7	1041.6	1042.7	1043.7	1042.7	1041.6	1040.7
175°	1043.9	1043.6	1043.2	1043.7	1044.9	1046.0	1047.2	1048.4	1047.2	1046.0	1044.9
177.5°	1045.2	1045.1	1045.0	1045.4	1046.3	1047.3	1048.2	1049.2	1048.2	1047.3	1046.3
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	759.6	758.2	753.2	750.6	746.4	742.4	739.7	740.9	741.9	741.4	740.7
5°	737.8	732.2	723.7	716.2	710.9	701.2	697.0	695.0	693.2	691.1	689.0
7.5°	711.9	703.1	690.8	680.2	670.3	658.1	651.3	647.1	642.8	638.1	634.0
10°	693.5	681.0	668.0	653.2	641.4	630.4	620.7	614.2	608.2	602.6	598.5
12.5°	674.1	659.7	643.6	623.4	610.4	594.7	593.3	581.8	572.5	569.0	564.2
15°	643.2	623.1	602.6	578.7	568.3	554.1	545.3	536.4	528.4	522.8	521.3
17.5°	608.1	582.0	561.7	544.5	527.6	513.0	504.9	497.7	491.2	483.6	482.7
20°	581.3	558.9	536.7	521.6	504.1	489.3	479.3	472.1	466.5	462.1	458.3
22.5°	556.0	531.4	511.1	494.6	477.4	465.4	457.5	450.7	446.0	441.1	437.4
25°	515.4	496.1	474.0	455.3	441.1	433.4	426.9	421.0	418.0	414.8	410.7
27.5°	479.8	458.4	437.7	423.3	410.7	403.9	399.3	395.3	392.5	390.6	388.2
30°	454.7	433.1	416.8	402.7	392.3	385.5	382.5	380.2	376.9	375.7	374.5
32.5°	430.6	411.1	397.2	384.9	375.0	370.6	367.9	365.8	363.2	362.0	359.7
35°	396.4	380.2	366.5	359.7	351.7	347.9	345.9	342.9	340.6	339.4	339.1
37.5°	364.3	350.1	341.2	332.5	329.1	326.7	323.9	321.9	321.2	321.0	320.7
40°	343.5	331.9	323.9	316.9	315.4	311.8	309.4	307.7	307.7	308.0	307.7
42.5°	324.6	314.2	307.1	301.0	299.3	297.1	294.8	294.7	295.2	296.1	295.2
45°	295.9	288.4	283.4	280.4	277.2	275.1	274.8	275.8	276.0	276.3	277.2
47.5°	269.4	264.5	260.0	256.7	255.3	254.9	254.6	256.1	257.5	258.1	259.4
50°	253.8	248.2	244.4	242.3	241.1	240.5	241.1	242.9	244.1	245.6	246.4
52.5°	236.3	232.3	229.7	228.1	227.6	228.0	228.1	230.1	232.0	232.5	233.0
55°	212.1	209.1	208.6	205.9	207.1	206.8	208.3	209.5	211.2	213.0	213.3
57.5°	188.0	185.6	184.0	184.3	184.6	185.9	187.1	189.3	191.2	193.0	193.2
60°	171.9	170.7	169.8	169.8	170.4	172.2	173.6	175.7	176.9	178.1	179.0
62.5°	157.2	156.1	155.1	155.6	157.2	158.2	159.9	161.1	162.2	163.4	163.8
65°	134.0	133.4	134.4	134.9	135.2	136.7	138.8	139.7	140.9	141.4	143.5
67.5°	112.6	112.8	112.6	113.5	115.2	115.6	117.5	119.6	119.9	121.0	122.3
70°	98.2	98.8	99.4	100.0	101.5	102.0	103.5	104.4	105.6	106.5	107.4
72.5°	85.0	85.1	85.7	85.6	86.8	88.1	89.4	90.2	91.4	92.5	93.4
75°	65.4	65.4	66.0	66.3	67.7	69.2	68.9	69.6	70.7	71.9	72.5
77.5°	47.8	47.1	47.8	48.0	48.5	49.7	50.0	50.9	52.2	51.8	52.4
80°	36.4	35.5	36.4	36.7	36.7	38.2	38.2	38.7	39.6	38.7	39.6
82.5°	26.0	25.6	26.2	26.3	26.8	26.8	27.3	27.4	28.3	27.9	28.3
85°	13.0	12.8	13.0	12.8	13.0	13.3	13.3	13.0	13.0	13.6	12.8
87.5°	5.6	5.7	5.8	6.0	6.1	6.1	6.0	6.2	6.3	6.1	6.2
90°	8.2	9.7	11.1	12.4	13.8	15.1	16.0	16.8	17.7	18.5	19.1
92.5°	14.7	14.9	15.5	16.2	16.9	17.6	18.0	18.5	18.9	19.3	19.6
95°	27.0	24.8	26.0	27.2	28.4	29.5	30.3	31.2	32.1	32.9	33.2
97.5°	35.1	28.6	31.4	34.1	36.8	39.5	40.2	40.9	41.5	42.2	42.6
100°	41.8	31.7	34.5	37.4	40.3	43.2	44.5	45.9	47.2	48.6	49.4
102.5°	154.4	140.1	116.1	92.2	68.3	44.4	46.1	47.8	49.6	51.3	52.4
105°	250.3	229.9	183.9	138.0	92.1	46.2	48.0	49.9	51.7	53.6	54.8
107.5°	310.5	284.9	229.9	174.8	119.7	64.6	62.7	60.8	59.0	57.1	56.5
110°	349.4	326.9	278.3	229.7	181.1	132.5	115.7	98.8	82.0	65.2	57.1



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.6	382.1	370.2	358.1	346.1	334.1	272.7	211.4	150.0	88.6	58.2
115°	446.7	450.2	454.4	458.6	462.9	467.1	389.1	311.2	233.4	155.5	110.5
117.5°	502.7	505.7	508.7	511.5	514.4	517.3	498.4	479.6	460.8	442.0	412.6
120°	540.0	542.7	545.7	548.8	551.8	554.8	556.9	558.9	560.9	562.9	552.5
122.5°	574.4	577.4	580.7	584.0	587.2	590.6	591.8	593.0	594.2	595.4	593.8
125°	624.2	626.9	630.0	633.3	636.4	639.6	640.8	642.0	643.2	644.4	645.2
127.5°	671.8	674.3	676.7	679.1	681.4	683.8	685.6	687.3	689.0	690.7	691.6
130°	702.6	704.9	706.7	708.6	710.4	712.3	714.2	716.0	717.9	719.7	720.6
132.5°	731.3	733.3	735.2	737.0	738.9	740.8	742.4	743.9	745.5	747.1	747.8
135°	772.3	774.4	775.9	777.4	778.9	780.5	782.1	783.8	785.4	787.1	787.8
137.5°	808.8	810.6	812.4	814.0	815.8	817.5	819.2	820.8	822.4	824.1	824.7
140°	832.7	834.3	836.1	838.0	839.9	841.8	843.3	844.8	846.3	847.8	848.1
142.5°	854.0	855.6	857.8	859.9	862.1	864.1	865.5	866.9	868.3	869.7	869.9
145°	882.7	884.1	886.9	889.8	892.6	895.5	896.7	897.9	899.0	900.2	900.4
147.5°	910.6	911.7	914.6	917.3	920.2	923.1	923.9	924.8	925.7	926.5	926.6
150°	927.9	928.6	931.3	934.0	936.7	939.4	940.4	941.4	942.4	943.4	943.5
152.5°	943.6	944.3	946.8	949.4	952.0	954.5	955.5	956.6	957.5	958.5	958.5
155°	966.6	966.9	968.9	970.9	973.0	974.9	976.0	977.0	977.9	979.0	978.8
157.5°	986.2	986.3	987.7	989.1	990.5	991.9	993.1	994.2	995.4	996.5	996.4
160°	998.1	998.1	999.2	1000.2	1001.2	1002.2	1003.2	1004.2	1005.2	1006.2	1006.2
162.5°	1007.9	1007.8	1008.7	1009.6	1010.4	1011.3	1012.4	1013.6	1014.7	1015.9	1015.7
165°	1020.9	1020.6	1021.1	1021.6	1022.2	1022.6	1023.8	1025.0	1026.2	1027.4	1027.4
167.5°	1030.5	1030.3	1030.8	1031.3	1031.7	1032.2	1033.3	1034.5	1035.7	1036.9	1036.7
170°	1036.0	1035.7	1036.0	1036.3	1036.7	1037.0	1038.2	1039.4	1040.5	1041.7	1041.6
172.5°	1039.7	1039.3	1039.7	1040.0	1040.3	1040.7	1041.9	1043.0	1044.2	1045.4	1045.2
175°	1043.7	1043.2	1043.6	1043.9	1044.3	1044.6	1045.8	1046.9	1048.1	1049.3	1049.1
177.5°	1045.4	1045.0	1045.1	1045.2	1045.4	1045.5	1046.5	1047.4	1048.3	1049.2	1049.2
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	738.3	737.8	737.8	735.7	737.8	737.8	738.3	740.7	741.4	741.9	740.9
5°	684.9	684.0	682.5	684.0	682.5	684.0	684.9	689.0	691.1	693.2	695.0
7.5°	632.1	628.5	628.0	624.5	628.0	628.5	632.1	634.0	638.1	642.8	647.1
10°	593.5	591.1	590.8	585.2	590.8	591.1	593.5	598.5	602.6	608.2	614.2
12.5°	564.1	558.4	559.6	556.3	559.6	558.4	564.1	564.2	569.0	572.5	581.8
15°	513.3	513.3	512.1	507.1	512.1	513.3	513.3	521.3	522.8	528.4	536.4
17.5°	476.8	476.2	473.3	474.8	473.3	476.2	476.8	482.7	483.6	491.2	497.7
20°	455.0	453.2	449.7	449.7	449.7	453.2	455.0	458.3	462.1	466.5	472.1
22.5°	434.4	434.3	430.6	431.7	430.6	434.3	434.4	437.4	441.1	446.0	450.7
25°	410.4	408.0	406.2	407.1	406.2	408.0	410.4	410.7	414.8	418.0	421.0
27.5°	387.5	386.2	386.1	383.7	386.1	386.2	387.5	388.2	390.6	392.5	395.3
30°	374.2	371.3	371.9	370.4	371.9	371.3	374.2	374.5	375.7	376.9	380.2
32.5°	359.1	358.1	357.4	356.2	357.4	358.1	359.1	359.7	362.0	363.2	365.8
35°	338.4	338.7	337.2	337.9	337.2	338.7	338.4	339.1	339.4	340.6	342.9
37.5°	320.4	321.4	320.7	320.8	320.7	321.4	320.4	320.7	321.0	321.2	321.9
40°	308.6	308.6	308.6	309.4	308.6	308.6	308.6	307.7	308.0	307.7	307.7
42.5°	297.2	296.8	296.3	296.2	296.3	296.8	297.2	295.2	296.1	295.2	294.7
45°	277.8	278.7	279.0	277.5	279.0	278.7	277.8	277.2	276.3	276.0	275.8
47.5°	260.2	260.3	260.2	261.5	260.2	260.3	260.2	259.4	258.1	257.5	256.1
50°	248.0	247.3	248.0	247.3	248.0	247.3	248.0	246.4	245.6	244.1	242.9
52.5°	234.9	235.0	234.6	234.6	234.6	235.0	234.9	233.0	232.5	232.0	230.1
55°	214.5	215.1	214.8	214.8	214.8	215.1	214.5	213.3	213.0	211.2	209.5
57.5°	193.4	193.9	194.3	193.0	194.3	193.9	193.4	193.2	193.0	191.2	189.3
60°	178.7	180.1	179.9	179.3	179.9	180.1	178.7	179.0	178.1	176.9	175.7
62.5°	165.2	165.7	165.6	165.6	165.6	165.7	165.2	163.8	163.4	162.2	161.1
65°	144.3	145.0	144.1	145.0	144.1	145.0	144.3	143.5	141.4	140.9	139.7
67.5°	121.9	122.2	122.8	123.2	122.8	122.2	121.9	122.3	121.0	119.9	119.6
70°	108.0	107.7	108.6	109.5	108.6	107.7	108.0	107.4	106.5	105.6	104.4
72.5°	93.3	94.0	93.6	94.3	93.6	94.0	93.3	93.4	92.5	91.4	90.2
75°	71.9	72.8	72.5	73.4	72.5	72.8	71.9	72.5	71.9	70.7	69.6
77.5°	52.0	52.0	52.0	52.4	52.0	52.0	52.0	52.4	51.8	52.2	50.9
80°	39.6	39.1	38.4	39.6	38.4	39.1	39.6	39.6	38.7	39.6	38.7
82.5°	27.6	28.0	27.3	27.3	27.3	28.0	27.6	28.3	27.9	28.3	27.4
85°	12.8	12.4	11.8	11.8	11.8	12.4	12.8	12.8	13.6	13.0	13.0
87.5°	6.3	6.1	6.2	6.0	6.2	6.1	6.3	6.2	6.1	6.3	6.2
90°	19.4	19.7	20.1	20.4	20.1	19.7	19.4	19.1	18.5	17.7	16.8
92.5°	19.8	20.0	20.2	20.4	20.2	20.0	19.8	19.6	19.3	18.9	18.5
95°	33.0	32.9	32.7	32.6	32.7	32.9	33.0	33.2	32.9	32.1	31.2
97.5°	42.9	43.0	43.3	43.4	43.3	43.0	42.9	42.6	42.2	41.5	40.9
100°	49.7	50.1	50.4	50.7	50.4	50.1	49.7	49.4	48.6	47.2	45.9
102.5°	52.9	53.4	53.9	54.3	53.9	53.4	52.9	52.4	51.3	49.6	47.8
105°	55.5	56.2	56.9	57.5	56.9	56.2	55.5	54.8	53.6	51.7	49.9
107.5°	57.2	57.8	58.5	59.2	58.5	57.8	57.2	56.5	57.1	59.0	60.8
110°	57.8	58.5	59.1	59.8	59.1	58.5	57.8	57.1	65.2	82.0	98.8



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	58.8	59.3	59.9	60.4	59.9	59.3	58.8	58.2	88.6	150.0	211.4
115°	98.4	86.3	74.1	62.1	74.1	86.3	98.4	110.5	155.5	233.4	311.2
117.5°	372.8	333.0	293.3	253.4	293.3	333.0	372.8	412.6	442.0	460.8	479.6
120°	529.9	507.2	484.4	461.8	484.4	507.2	529.9	552.5	562.9	560.9	558.9
122.5°	589.4	585.0	580.6	576.2	580.6	585.0	589.4	593.8	595.4	594.2	593.0
125°	645.7	646.2	646.7	647.2	646.7	646.2	645.7	645.2	644.4	643.2	642.0
127.5°	691.7	691.8	691.9	692.0	691.9	691.8	691.7	691.6	690.7	689.0	687.3
130°	720.3	720.2	720.0	719.9	720.0	720.2	720.3	720.6	719.7	717.9	716.0
132.5°	747.6	747.4	747.3	747.1	747.3	747.4	747.6	747.8	747.1	745.5	743.9
135°	787.5	787.1	786.8	786.5	786.8	787.1	787.5	787.8	787.1	785.4	783.8
137.5°	824.1	823.5	822.9	822.4	822.9	823.5	824.1	824.7	824.1	822.4	820.8
140°	847.3	846.4	845.6	844.8	845.6	846.4	847.3	848.1	847.8	846.3	844.8
142.5°	869.1	868.2	867.4	866.6	867.4	868.2	869.1	869.9	869.7	868.3	866.9
145°	899.5	898.7	897.9	897.0	897.9	898.7	899.5	900.4	900.2	899.0	897.9
147.5°	925.9	925.2	924.5	923.8	924.5	925.2	925.9	926.6	926.5	925.7	924.8
150°	942.7	941.8	941.0	940.2	941.0	941.8	942.7	943.5	943.4	942.4	941.4
152.5°	957.4	956.3	955.2	954.1	955.2	956.3	957.4	958.5	958.5	957.5	956.6
155°	977.5	976.1	974.8	973.4	974.8	976.1	977.5	978.8	979.0	977.9	977.0
157.5°	995.1	993.8	992.4	991.2	992.4	993.8	995.1	996.4	996.5	995.4	994.2
160°	1005.0	1003.8	1002.7	1001.5	1002.7	1003.8	1005.0	1006.2	1006.2	1005.2	1004.2
162.5°	1014.2	1012.8	1011.4	1010.0	1011.4	1012.8	1014.2	1015.7	1015.9	1014.7	1013.6
165°	1026.2	1025.0	1023.8	1022.6	1023.8	1025.0	1026.2	1027.4	1027.4	1026.2	1025.0
167.5°	1035.2	1033.7	1032.2	1030.7	1032.2	1033.7	1035.2	1036.7	1036.9	1035.7	1034.5
170°	1040.1	1038.6	1037.0	1035.5	1037.0	1038.6	1040.1	1041.6	1041.7	1040.5	1039.4
172.5°	1043.7	1042.2	1040.7	1039.2	1040.7	1042.2	1043.7	1045.2	1045.4	1044.2	1043.0
175°	1047.3	1045.7	1044.0	1042.4	1044.0	1045.7	1047.3	1049.1	1049.3	1048.1	1046.9
177.5°	1047.9	1046.7	1045.5	1044.3	1045.5	1046.7	1047.9	1049.2	1049.2	1048.3	1047.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	739.7	742.4	746.4	750.6	753.2	758.2	759.6	762.0	764.1	769.1	774.3
5°	697.0	701.2	710.9	716.2	723.7	732.2	737.8	743.8	750.3	761.5	771.9
7.5°	651.3	658.1	670.3	680.2	690.8	703.1	711.9	723.7	733.3	749.2	764.4
10°	620.7	630.4	641.4	653.2	668.0	681.0	693.5	708.3	720.1	739.0	756.8
12.5°	593.3	594.7	610.4	623.4	643.6	659.7	674.1	693.1	704.7	727.2	745.9
15°	545.3	554.1	568.3	578.7	602.6	623.1	643.2	663.0	676.3	704.1	728.6
17.5°	504.9	513.0	527.6	544.5	561.7	582.0	608.1	629.0	647.1	678.8	707.9
20°	479.3	489.3	504.1	521.6	536.7	558.9	581.3	605.3	624.8	660.6	694.7
22.5°	457.5	465.4	477.4	494.6	511.1	531.4	556.0	582.1	602.6	641.2	675.7
25°	426.9	433.4	441.1	455.3	474.0	496.1	515.4	544.1	573.9	610.1	651.7
27.5°	399.3	403.9	410.7	423.3	437.7	458.4	479.8	507.0	537.1	576.2	620.3
30°	382.5	385.5	392.3	402.7	416.8	433.1	454.7	480.8	511.5	551.2	594.9
32.5°	367.9	370.6	375.0	384.9	397.2	411.1	430.6	456.6	485.9	524.9	573.4
35°	345.9	347.9	351.7	359.7	366.5	380.2	396.4	420.1	447.6	484.9	535.2
37.5°	323.9	326.7	329.1	332.5	341.2	350.1	364.3	384.3	411.3	448.9	496.9
40°	309.4	311.8	315.4	316.9	323.9	331.9	343.5	361.8	389.0	423.3	470.1
42.5°	294.8	297.1	299.3	301.0	307.1	314.2	324.6	340.3	364.4	397.8	444.1
45°	274.8	275.1	277.2	280.4	283.4	288.4	295.9	309.4	328.1	359.5	401.5
47.5°	254.6	254.9	255.3	256.7	260.0	264.5	269.4	280.5	297.2	322.3	363.1
50°	241.1	240.5	241.1	242.3	244.4	248.2	253.8	261.8	275.4	298.8	336.4
52.5°	228.1	228.0	227.6	228.1	229.7	232.3	236.3	243.1	255.3	276.8	309.9
55°	208.3	206.8	207.1	205.9	208.6	209.1	212.1	217.8	228.4	243.2	274.3
57.5°	187.1	185.9	184.6	184.3	184.0	185.6	188.0	192.4	200.6	213.6	238.8
60°	173.6	172.2	170.4	169.8	169.8	170.7	171.9	175.2	182.8	194.4	215.1
62.5°	159.9	158.2	157.2	155.6	155.1	156.1	157.2	159.5	165.1	175.9	193.8
65°	138.8	136.7	135.2	134.9	134.4	133.4	134.0	136.4	140.9	149.4	163.6
67.5°	117.5	115.6	115.2	113.5	112.6	112.8	112.6	114.7	117.3	124.7	135.3
70°	103.5	102.0	101.5	100.0	99.4	98.8	98.2	100.0	102.7	108.8	118.0
72.5°	89.4	88.1	86.8	85.6	85.7	85.1	85.0	86.0	88.2	94.0	101.0
75°	68.9	69.2	67.7	66.3	66.0	65.4	65.4	66.3	67.2	71.6	77.2
77.5°	50.0	49.7	48.5	48.0	47.8	47.1	47.8	48.3	48.8	51.8	55.9
80°	38.2	38.2	36.7	36.7	36.4	35.5	36.4	35.8	37.0	39.9	42.9
82.5°	27.3	26.8	26.8	26.3	26.2	25.6	26.0	26.5	27.0	29.1	30.8
85°	13.3	13.3	13.0	12.8	13.0	12.8	13.0	13.3	13.6	14.5	16.0
87.5°	6.0	6.1	6.1	6.0	5.8	5.7	5.6	5.5	5.6	5.5	5.4
90°	16.0	15.1	13.8	12.4	11.1	9.7	8.2	6.3	4.4	2.6	0.8
92.5°	18.0	17.6	16.9	16.2	15.5	14.9	14.7	14.8	15.0	15.1	15.3
95°	30.3	29.5	28.4	27.2	26.0	24.8	27.0	32.6	38.1	43.6	49.2
97.5°	40.2	39.5	36.8	34.1	31.4	28.6	35.1	50.7	66.4	82.0	97.7
100°	44.5	43.2	40.3	37.4	34.5	31.7	41.8	64.9	87.9	110.9	134.0
102.5°	46.1	44.4	68.3	92.2	116.1	140.1	154.4	159.3	164.2	169.1	174.0
105°	48.0	46.2	92.1	138.0	183.9	229.9	250.3	245.3	240.2	235.2	230.1
107.5°	62.7	64.6	119.7	174.8	229.9	284.9	310.5	306.3	302.3	298.3	294.1
110°	115.7	132.5	181.1	229.7	278.3	326.9	349.4	345.9	342.4	338.9	335.3



TEST NUMBER: P331507-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.7	334.1	346.1	358.1	370.2	382.1	386.6	383.5	380.3	377.2	374.1
115°	389.1	467.1	462.9	458.6	454.4	450.2	446.7	443.9	441.0	438.1	435.2
117.5°	498.4	517.3	514.4	511.5	508.7	505.7	502.7	499.5	496.3	493.1	489.9
120°	556.9	554.8	551.8	548.8	545.7	542.7	540.0	537.4	534.9	532.4	529.9
122.5°	591.8	590.6	587.2	584.0	580.7	577.4	574.4	571.7	569.1	566.4	563.8
125°	640.8	639.6	636.4	633.3	630.0	626.9	624.2	621.9	619.8	617.6	615.4
127.5°	685.6	683.8	681.4	679.1	676.7	674.3	671.8	669.5	667.0	664.6	662.2
130°	714.2	712.3	710.4	708.6	706.7	704.9	702.6	699.9	697.3	694.6	691.9
132.5°	742.4	740.8	738.9	737.0	735.2	733.3	731.3	729.0	726.7	724.5	722.2
135°	782.1	780.5	778.9	777.4	775.9	774.4	772.3	769.6	766.9	764.2	761.5
137.5°	819.2	817.5	815.8	814.0	812.4	810.6	808.8	807.0	805.1	803.2	801.3
140°	843.3	841.8	839.9	838.0	836.1	834.3	832.7	831.4	830.0	828.7	827.4
142.5°	865.5	864.1	862.1	859.9	857.8	855.6	854.0	852.8	851.6	850.3	849.1
145°	896.7	895.5	892.6	889.8	886.9	884.1	882.7	882.9	883.0	883.2	883.4
147.5°	923.9	923.1	920.2	917.3	914.6	911.7	910.6	911.2	911.9	912.5	913.2
150°	940.4	939.4	936.7	934.0	931.3	928.6	927.9	929.1	930.2	931.4	932.6
152.5°	955.5	954.5	952.0	949.4	946.8	944.3	943.6	945.0	946.3	947.6	949.0
155°	976.0	974.9	973.0	970.9	968.9	966.9	966.6	968.1	969.6	971.1	972.7
157.5°	993.1	991.9	990.5	989.1	987.7	986.3	986.2	987.5	988.7	990.1	991.3
160°	1003.2	1002.2	1001.2	1000.2	999.2	998.1	998.1	999.2	1000.2	1001.2	1002.2
162.5°	1012.4	1011.3	1010.4	1009.6	1008.7	1007.8	1007.9	1008.8	1009.9	1010.9	1011.9
165°	1023.8	1022.6	1022.2	1021.6	1021.1	1020.6	1020.9	1021.9	1022.9	1023.9	1024.9
167.5°	1033.3	1032.2	1031.7	1031.3	1030.8	1030.3	1030.5	1031.6	1032.6	1033.6	1034.6
170°	1038.2	1037.0	1036.7	1036.3	1036.0	1035.7	1036.0	1037.0	1038.1	1039.0	1040.1
172.5°	1041.9	1040.7	1040.3	1040.0	1039.7	1039.3	1039.7	1040.7	1041.6	1042.7	1043.7
175°	1045.8	1044.6	1044.3	1043.9	1043.6	1043.2	1043.7	1044.9	1046.0	1047.2	1048.4
177.5°	1046.5	1045.5	1045.4	1045.2	1045.1	1045.0	1045.4	1046.3	1047.3	1048.2	1049.2
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P331507-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	773.8	775.0	778.8	782.6	786.8	788.0	789.9	788.2	787.7	792.3	795.6
5°	776.0	781.3	791.7	801.1	809.1	814.8	820.7	823.1	827.5	833.7	841.4
7.5°	773.5	783.9	800.2	814.0	828.9	839.8	848.3	855.5	864.2	876.0	888.8
10°	770.7	784.6	804.4	821.3	839.6	853.5	865.1	876.3	889.3	905.6	922.4
12.5°	765.5	782.0	806.8	826.7	850.2	864.0	879.5	903.7	917.7	940.4	964.1
15°	755.0	773.3	807.9	832.5	859.1	885.2	913.9	936.9	960.0	973.4	1006.8
17.5°	739.4	766.4	804.7	833.4	867.2	908.2	940.4	966.6	993.2	1014.8	1031.6
20°	726.9	756.2	799.9	834.3	874.5	918.6	955.6	982.2	1005.3	1023.3	1033.7
22.5°	711.1	747.9	790.5	830.8	882.1	925.7	964.6	985.6	1004.8	1013.6	1017.6
25°	686.0	730.5	778.6	827.8	885.7	931.9	967.4	980.2	985.8	977.2	963.0
27.5°	659.2	708.6	765.0	822.2	883.5	927.9	953.3	951.3	941.8	914.0	891.8
30°	639.1	693.5	754.1	816.5	878.1	921.2	936.0	921.2	899.7	868.6	836.9
32.5°	618.0	674.3	742.5	808.5	868.2	906.1	909.3	883.8	850.4	815.2	775.6
35°	586.1	647.1	720.6	790.5	847.0	871.0	856.7	811.8	772.1	724.0	670.1
37.5°	550.0	617.3	691.2	764.1	815.4	821.7	786.4	739.0	683.1	626.5	563.1
40°	523.1	594.4	670.4	744.0	789.3	782.8	737.8	685.8	619.2	550.0	491.1
42.5°	498.9	570.2	647.7	719.9	756.2	738.3	685.8	621.9	550.3	485.1	431.3
45°	457.1	530.4	609.7	679.5	700.3	668.0	598.5	527.5	457.1	402.7	360.0
47.5°	416.5	489.0	567.5	628.9	636.3	592.9	516.9	443.9	383.3	339.0	309.0
50°	386.7	459.5	537.3	592.0	589.6	537.3	459.1	389.6	339.1	303.2	283.1
52.5°	359.9	428.6	503.4	553.2	540.7	483.5	409.0	347.3	305.7	277.7	259.4
55°	318.3	381.9	453.0	492.9	469.8	406.5	343.5	293.7	263.0	242.0	227.8
57.5°	277.0	336.7	397.4	422.1	396.6	338.1	285.6	249.5	226.4	210.8	201.6
60°	251.4	303.6	357.7	379.0	348.5	296.4	255.0	222.8	204.1	191.4	183.2
62.5°	225.9	272.5	323.6	335.2	307.3	263.3	226.6	199.8	184.5	173.2	165.4
65°	191.2	229.3	268.1	275.8	250.0	215.9	187.0	169.5	155.9	147.7	141.4
67.5°	156.8	187.4	214.8	221.0	198.5	174.9	153.9	138.8	129.5	122.6	117.4
70°	136.4	160.7	183.2	188.1	170.1	149.1	133.2	121.0	112.7	106.8	101.8
72.5°	114.9	135.1	153.8	157.2	142.4	126.4	113.3	103.7	96.4	92.6	87.8
75°	87.9	99.7	114.2	115.1	105.4	95.5	85.5	79.3	75.4	70.7	68.4
77.5°	62.0	71.3	79.6	81.2	75.4	68.8	63.1	58.2	55.0	52.8	50.6
80°	47.4	54.7	58.3	60.4	56.2	51.5	48.2	45.0	42.9	41.4	39.9
82.5°	33.8	38.4	41.7	43.3	41.0	38.3	34.9	33.1	31.5	30.3	29.8
85°	17.2	19.3	21.3	21.9	21.3	20.1	18.4	18.4	17.4	17.2	17.2
87.5°	6.4	7.8	8.2	9.2	9.0	9.3	9.6	9.6	9.7	9.6	9.5
90°	2.6	4.4	6.3	8.2	9.7	11.1	12.4	13.8	15.1	16.0	16.8
92.5°	15.1	15.0	14.8	14.7	14.9	15.5	16.2	16.9	17.6	18.0	18.5
95°	43.6	38.1	32.6	27.0	24.8	26.0	27.2	28.4	29.5	30.3	31.2
97.5°	82.0	66.4	50.7	35.1	28.6	31.4	34.1	36.8	39.5	40.2	40.9
100°	110.9	87.9	64.9	41.8	31.7	34.5	37.4	40.3	43.2	44.5	45.9
102.5°	169.1	164.2	159.3	154.4	140.1	116.1	92.2	68.3	44.4	46.1	47.8
105°	235.2	240.2	245.3	250.3	229.9	183.9	138.0	92.1	46.2	48.0	49.9
107.5°	298.3	302.3	306.3	310.5	284.9	229.9	174.8	119.7	64.6	62.7	60.8
110°	338.9	342.4	345.9	349.4	326.9	278.3	229.7	181.1	132.5	115.7	98.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	377.2	380.3	383.5	386.6	382.1	370.2	358.1	346.1	334.1	272.7	211.4
115°	438.1	441.0	443.9	446.7	450.2	454.4	458.6	462.9	467.1	389.1	311.2
117.5°	493.1	496.3	499.5	502.7	505.7	508.7	511.5	514.4	517.3	498.4	479.6
120°	532.4	534.9	537.4	540.0	542.7	545.7	548.8	551.8	554.8	556.9	558.9
122.5°	566.4	569.1	571.7	574.4	577.4	580.7	584.0	587.2	590.6	591.8	593.0
125°	617.6	619.8	621.9	624.2	626.9	630.0	633.3	636.4	639.6	640.8	642.0
127.5°	664.6	667.0	669.5	671.8	674.3	676.7	679.1	681.4	683.8	685.6	687.3
130°	694.6	697.3	699.9	702.6	704.9	706.7	708.6	710.4	712.3	714.2	716.0
132.5°	724.5	726.7	729.0	731.3	733.3	735.2	737.0	738.9	740.8	742.4	743.9
135°	764.2	766.9	769.6	772.3	774.4	775.9	777.4	778.9	780.5	782.1	783.8
137.5°	803.2	805.1	807.0	808.8	810.6	812.4	814.0	815.8	817.5	819.2	820.8
140°	828.7	830.0	831.4	832.7	834.3	836.1	838.0	839.9	841.8	843.3	844.8
142.5°	850.3	851.6	852.8	854.0	855.6	857.8	859.9	862.1	864.1	865.5	866.9
145°	883.2	883.0	882.9	882.7	884.1	886.9	889.8	892.6	895.5	896.7	897.9
147.5°	912.5	911.9	911.2	910.6	911.7	914.6	917.3	920.2	923.1	923.9	924.8
150°	931.4	930.2	929.1	927.9	928.6	931.3	934.0	936.7	939.4	940.4	941.4
152.5°	947.6	946.3	945.0	943.6	944.3	946.8	949.4	952.0	954.5	955.5	956.6
155°	971.1	969.6	968.1	966.6	966.9	968.9	970.9	973.0	974.9	976.0	977.0
157.5°	990.1	988.7	987.5	986.2	986.3	987.7	989.1	990.5	991.9	993.1	994.2
160°	1001.2	1000.2	999.2	998.1	998.1	999.2	1000.2	1001.2	1002.2	1003.2	1004.2
162.5°	1010.9	1009.9	1008.8	1007.9	1007.8	1008.7	1009.6	1010.4	1011.3	1012.4	1013.6
165°	1023.9	1022.9	1021.9	1020.9	1020.6	1021.1	1021.6	1022.2	1022.6	1023.8	1025.0
167.5°	1033.6	1032.6	1031.6	1030.5	1030.3	1030.8	1031.3	1031.7	1032.2	1033.3	1034.5
170°	1039.0	1038.1	1037.0	1036.0	1035.7	1036.0	1036.3	1036.7	1037.0	1038.2	1039.4
172.5°	1042.7	1041.6	1040.7	1039.7	1039.3	1039.7	1040.0	1040.3	1040.7	1041.9	1043.0
175°	1047.2	1046.0	1044.9	1043.7	1043.2	1043.6	1043.9	1044.3	1044.6	1045.8	1046.9
177.5°	1048.2	1047.3	1046.3	1045.4	1045.0	1045.1	1045.2	1045.4	1045.5	1046.5	1047.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	798.4	801.8	801.8	802.2	806.0	805.6	805.3
5°	849.7	854.7	855.3	860.6	864.2	863.0	859.8
7.5°	898.0	907.4	914.5	918.5	923.1	926.0	924.7
10°	936.4	950.0	958.2	963.8	970.7	975.7	973.9
12.5°	971.1	987.4	998.7	1008.4	1009.2	1015.7	1011.3
15°	1025.4	1042.6	1044.3	1051.5	1057.1	1056.5	1056.8
17.5°	1043.3	1048.8	1050.0	1050.1	1050.2	1048.1	1043.6
20°	1037.0	1034.9	1029.8	1026.0	1019.2	1018.3	1012.4
22.5°	1006.6	1000.1	987.5	979.1	968.5	965.7	964.1
25°	947.0	932.5	912.4	893.2	887.8	877.5	880.4
27.5°	865.1	842.6	820.8	805.2	791.1	775.5	780.0
30°	807.6	782.2	751.5	727.8	712.7	697.9	695.2
32.5°	739.0	701.7	667.4	646.6	623.4	614.1	603.9
35°	620.7	584.3	550.2	521.0	504.1	491.1	479.3
37.5°	514.2	472.4	444.9	421.2	409.0	401.6	403.4
40°	448.2	411.5	391.4	373.4	362.1	356.8	358.0
42.5°	394.7	367.3	350.7	338.3	330.4	327.4	326.7
45°	334.0	318.6	305.0	297.9	294.1	290.8	288.8
47.5°	292.6	280.0	272.4	268.2	264.7	261.5	261.4
50°	267.8	259.4	254.1	249.7	247.0	244.6	246.8
52.5°	248.8	241.2	235.9	232.0	230.9	228.8	228.8
55°	220.7	214.8	211.0	207.4	205.7	204.5	203.0
57.5°	195.1	189.5	186.0	183.7	180.4	179.2	178.7
60°	176.9	172.5	168.9	166.0	164.5	162.2	162.2
62.5°	160.1	155.7	152.3	150.1	147.7	146.7	146.9
65°	135.8	132.2	129.0	126.6	126.0	124.3	124.8
67.5°	113.4	111.1	107.7	106.3	105.2	104.3	103.5
70°	98.5	96.2	94.3	92.6	91.7	91.7	91.7
72.5°	86.0	83.1	82.1	79.9	80.3	79.4	78.4
75°	66.5	64.8	63.9	63.0	61.6	61.6	61.6
77.5°	49.0	48.5	47.4	46.4	46.1	45.8	45.9
80°	37.9	37.5	37.0	37.0	36.4	36.1	35.5
82.5°	29.1	28.4	28.0	27.7	27.6	27.6	27.5
85°	16.6	16.0	16.0	16.2	15.7	15.7	16.0
87.5°	9.9	10.1	10.0	10.1	10.4	10.1	10.2
90°	17.7	18.5	19.1	19.4	19.7	20.1	20.4
92.5°	18.9	19.3	19.6	19.8	20.0	20.2	20.4
95°	32.1	32.9	33.2	33.0	32.9	32.7	32.6
97.5°	41.5	42.2	42.6	42.9	43.0	43.3	43.4
100°	47.2	48.6	49.4	49.7	50.1	50.4	50.7
102.5°	49.6	51.3	52.4	52.9	53.4	53.9	54.3
105°	51.7	53.6	54.8	55.5	56.2	56.9	57.5
107.5°	59.0	57.1	56.5	57.2	57.8	58.5	59.2
110°	82.0	65.2	57.1	57.8	58.5	59.1	59.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	150.0	88.6	58.2	58.8	59.3	59.9	60.4
115°	233.4	155.5	110.5	98.4	86.3	74.1	62.1
117.5°	460.8	442.0	412.6	372.8	333.0	293.3	253.4
120°	560.9	562.9	552.5	529.9	507.2	484.4	461.8
122.5°	594.2	595.4	593.8	589.4	585.0	580.6	576.2
125°	643.2	644.4	645.2	645.7	646.2	646.7	647.2
127.5°	689.0	690.7	691.6	691.7	691.8	691.9	692.0
130°	717.9	719.7	720.6	720.3	720.2	720.0	719.9
132.5°	745.5	747.1	747.8	747.6	747.4	747.3	747.1
135°	785.4	787.1	787.8	787.5	787.1	786.8	786.5
137.5°	822.4	824.1	824.7	824.1	823.5	822.9	822.4
140°	846.3	847.8	848.1	847.3	846.4	845.6	844.8
142.5°	868.3	869.7	869.9	869.1	868.2	867.4	866.6
145°	899.0	900.2	900.4	899.5	898.7	897.9	897.0
147.5°	925.7	926.5	926.6	925.9	925.2	924.5	923.8
150°	942.4	943.4	943.5	942.7	941.8	941.0	940.2
152.5°	957.5	958.5	958.5	957.4	956.3	955.2	954.1
155°	977.9	979.0	978.8	977.5	976.1	974.8	973.4
157.5°	995.4	996.5	996.4	995.1	993.8	992.4	991.2
160°	1005.2	1006.2	1006.2	1005.0	1003.8	1002.7	1001.5
162.5°	1014.7	1015.9	1015.7	1014.2	1012.8	1011.4	1010.0
165°	1026.2	1027.4	1027.4	1026.2	1025.0	1023.8	1022.6
167.5°	1035.7	1036.9	1036.7	1035.2	1033.7	1032.2	1030.7
170°	1040.5	1041.7	1041.6	1040.1	1038.6	1037.0	1035.5
172.5°	1044.2	1045.4	1045.2	1043.7	1042.2	1040.7	1039.2
175°	1048.1	1049.3	1049.1	1047.3	1045.7	1044.0	1042.4
177.5°	1048.3	1049.2	1049.2	1047.9	1046.7	1045.5	1044.3
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1

(END OF REPORT)