

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: P331508-927

Luminaire Tested: **S122DIW-S485D970U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331508-927  
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-S485D970U927-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4360.7 lumens  
Efficiency: N/A  
Efficacy: 96.5 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

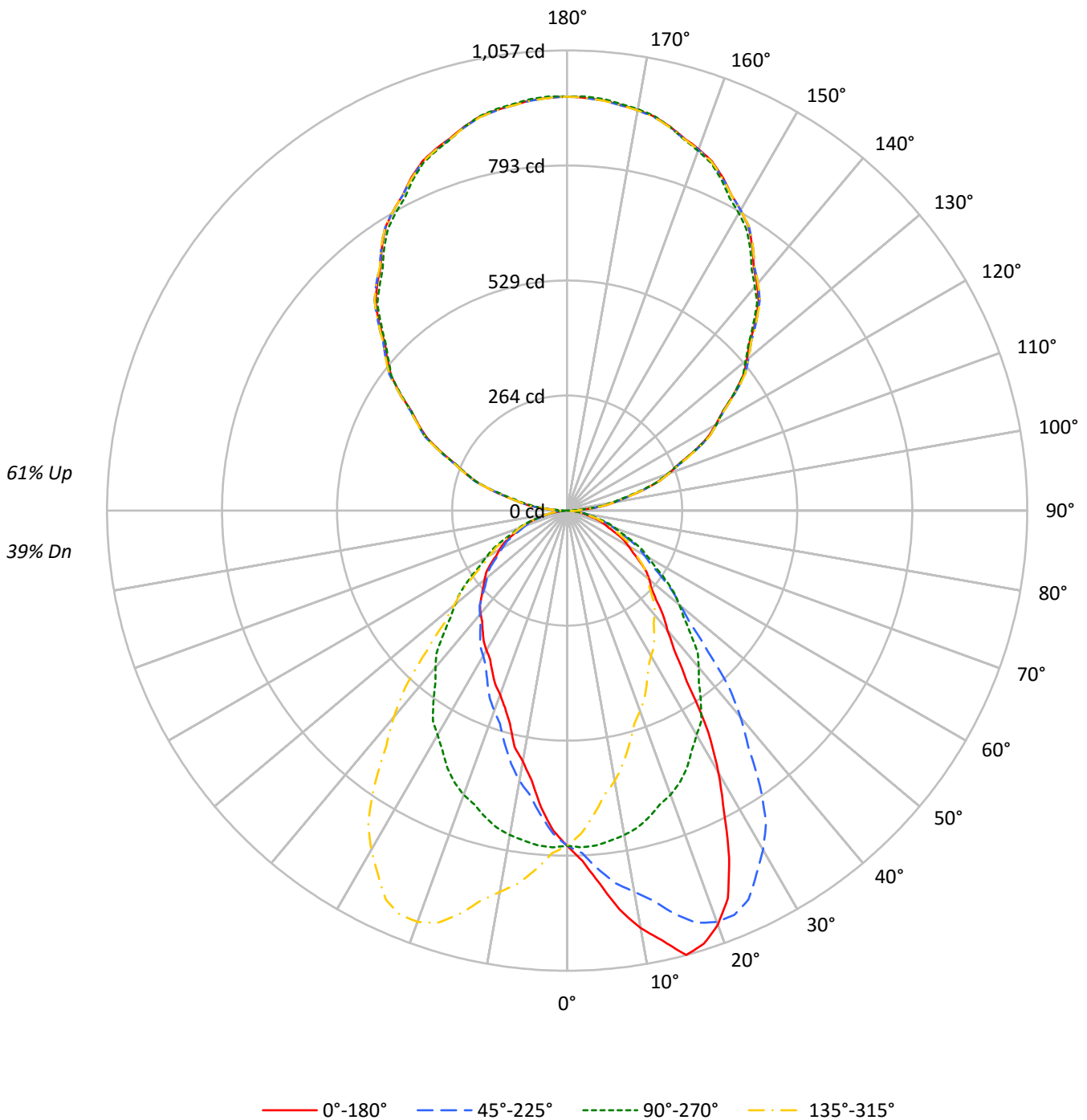
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	75	70	79	73	68	64	60	57	54	48	46	43	37	35	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22
5	67	56	48	43	61	52	45	40	43	38	34	35	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	33	30	31	28	25	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	29	25	22	22	20	18	15
8	53	41	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	17	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

**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	1.7
10°-20°	213.1	4.9
20°-30°	309.3	7.1
30°-40°	326.4	7.5
40°-50°	289.0	6.6
50°-60°	230.6	5.3
60°-70°	156.8	3.6
70°-80°	80.4	1.8
80°-90°	23.2	0.5
90°-100°	60.2	1.4
100°-110°	187.1	4.3
110°-120°	319.9	7.3
120°-130°	420.6	9.6
130°-140°	472.1	10.8
140°-150°	462.9	10.6
150°-160°	388.3	8.9
160°-170°	257.5	5.9
170°-180°	90.0	2.1
0°-30°	595.8	13.7
0°-40°	922.2	21.1
0°-60°	1441.8	33.1
0°-90°	1702.1	39.0
90°-120°	567.2	13.0
90°-150°	1922.8	44.1
90°-180°	2659.0	61.0
0°-180°	4360.7	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°	27	1	27	1	27	13
95°	50	42	50	42	50	55
105°	178	172	178	172	178	187
115°	321	321	321	321	321	317
125°	469	467	469	467	469	418
135°	611	604	611	604	611	471
145°	741	733	741	733	741	463
155°	845	838	845	838	845	389
165°	913	912	913	912	913	258
175°	946	949	946	949	946	90
180°	951	951	951	951	951	



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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°	11.6	11.6	11.8	11.5	11.5	11.7	11.8	11.6	12.0	12.3	11.7
90°	27.3	27.1	26.9	26.8	26.5	26.6	27.0	27.3	27.7	28.0	24.2
92.5°	26.0	26.0	25.9	25.9	25.8	25.8	25.7	25.7	25.6	25.5	24.6
95°	49.7	50.1	50.5	50.8	51.2	51.3	51.3	51.3	51.3	51.3	51.0
97.5°	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	85.6
100°	110.0	110.1	110.3	110.4	110.7	110.7	110.7	110.7	110.7	110.7	110.2
102.5°	136.9	137.0	137.2	137.4	137.6	137.6	137.4	137.4	137.2	137.0	136.3
105°	178.2	178.2	178.2	178.2	178.2	177.9	177.6	177.2	176.9	176.5	176.2
107.5°	217.0	217.8	218.6	219.4	220.2	220.5	220.5	220.3	220.1	220.0	220.0
110°	247.2	247.6	248.2	248.7	249.3	249.5	249.5	249.5	249.5	249.5	249.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	276.0	276.4	276.8	277.2	277.6	278.0	278.5	278.8	279.2	279.7	279.9
115°	320.9	321.5	322.0	322.6	323.1	323.4	323.6	323.8	324.0	324.2	324.5
117.5°	363.8	364.3	364.9	365.4	365.9	366.4	366.9	367.3	367.7	368.1	369.2
120°	394.0	394.5	395.1	395.5	396.1	396.4	396.4	396.4	396.4	396.4	397.8
122.5°	423.5	423.9	424.3	424.7	425.1	425.5	425.9	426.4	426.7	427.1	428.2
125°	468.6	468.7	469.0	469.1	469.3	469.7	470.2	470.7	471.3	471.8	472.3
127.5°	509.7	510.2	510.8	511.4	511.9	512.5	513.2	513.8	514.4	515.2	515.8
130°	539.2	539.9	540.6	541.3	542.0	542.6	543.0	543.3	543.7	544.0	544.4
132.5°	567.4	568.0	568.5	569.2	569.7	570.4	571.2	572.0	572.7	573.5	573.5
135°	611.4	612.0	612.4	613.0	613.5	613.9	614.1	614.3	614.4	614.6	614.3
137.5°	651.2	651.9	652.6	653.3	654.0	654.5	654.7	654.7	654.9	655.1	654.6
140°	678.8	679.5	680.2	681.0	681.7	682.0	682.0	682.0	682.0	682.0	681.1
142.5°	703.9	704.6	705.3	706.0	706.7	706.9	706.9	706.7	706.5	706.4	705.8
145°	741.4	742.1	742.8	743.5	744.3	744.5	744.3	744.2	743.9	743.8	742.8
147.5°	774.9	775.6	776.3	777.0	777.6	777.8	777.4	777.0	776.6	776.2	775.5
150°	796.8	797.3	797.8	798.4	798.9	798.9	798.4	797.8	797.3	796.8	796.1
152.5°	817.3	817.9	818.6	819.4	820.0	820.0	819.4	818.6	817.9	817.3	816.4
155°	844.9	845.4	846.0	846.5	847.0	846.8	846.0	845.1	844.1	843.3	842.7
157.5°	868.6	869.5	870.4	871.2	872.0	871.9	870.7	869.5	868.2	867.0	866.7
160°	883.4	884.2	884.9	885.6	886.3	886.1	885.0	883.9	882.9	881.8	881.6
162.5°	896.3	897.1	897.9	898.8	899.7	899.5	898.3	897.1	895.9	894.6	894.5
165°	913.1	914.0	914.9	915.8	916.6	916.5	915.2	914.0	912.8	911.5	911.5
167.5°	926.9	927.8	928.8	929.7	930.6	930.4	929.2	928.0	926.7	925.4	925.5
170°	934.0	935.0	936.1	937.2	938.3	938.2	936.9	935.6	934.4	933.2	933.3
172.5°	939.8	940.8	941.9	942.9	944.0	943.9	942.7	941.4	940.2	938.9	939.1
175°	946.0	947.1	948.2	949.2	950.3	950.1	949.0	947.7	946.4	945.2	945.5
177.5°	948.9	949.7	950.6	951.4	952.3	952.3	951.4	950.6	949.7	948.9	949.2
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



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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°	11.2	10.4	9.6	9.4	8.3	7.8	6.5	5.4	5.5	5.8	5.7
90°	20.2	16.3	12.4	9.3	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	23.7	22.7	21.8	20.6	19.0	17.4	15.8	14.3	15.8	17.4	19.0
95°	50.6	50.3	49.9	48.9	47.1	45.3	43.5	41.7	43.5	45.3	47.1
97.5°	85.0	84.3	83.7	82.5	81.0	79.4	77.8	76.2	77.8	79.4	81.0
100°	109.6	109.1	108.6	107.6	106.2	104.7	103.3	101.9	103.3	104.7	106.2
102.5°	135.7	135.0	134.4	133.4	132.3	131.1	130.0	128.9	130.0	131.1	132.3
105°	175.8	175.5	175.1	174.7	174.1	173.6	173.0	172.5	173.0	173.6	174.1
107.5°	220.0	220.0	220.0	219.6	218.8	218.0	217.3	216.5	217.3	218.0	218.8
110°	249.5	249.5	249.5	249.0	248.0	246.8	245.8	244.7	245.8	246.8	248.0





TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.0	280.1	280.3	279.8	278.8	277.7	276.6	275.5	276.6	277.7	278.8
115°	324.9	325.2	325.6	325.2	324.2	323.1	322.0	320.9	322.0	323.1	324.2
117.5°	370.1	371.1	372.1	371.9	370.5	369.1	367.7	366.2	367.7	369.1	370.5
120°	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4	397.8	399.3	400.7
122.5°	429.2	430.2	431.2	430.8	429.1	427.4	425.7	424.0	425.7	427.4	429.1
125°	472.9	473.4	474.0	473.4	471.8	470.2	468.6	467.0	468.6	470.2	471.8
127.5°	516.4	517.1	517.7	517.0	515.0	512.9	510.9	508.9	510.9	512.9	515.0
130°	544.7	545.1	545.4	544.5	542.2	539.8	537.5	535.2	537.5	539.8	542.2
132.5°	573.4	573.3	573.2	572.3	570.4	568.5	566.6	564.7	566.6	568.5	570.4
135°	613.9	613.5	613.1	612.0	610.1	608.1	606.2	604.2	606.2	608.1	610.1
137.5°	654.1	653.6	653.2	652.1	650.5	649.0	647.4	645.7	647.4	649.0	650.5
140°	680.2	679.4	678.4	677.2	675.6	674.0	672.4	670.7	672.4	674.0	675.6
142.5°	705.2	704.6	704.0	702.9	701.2	699.7	698.1	696.5	698.1	699.7	701.2
145°	741.6	740.6	739.5	738.4	737.1	735.9	734.6	733.3	734.6	735.9	737.1
147.5°	774.8	774.0	773.3	772.2	770.7	769.3	767.8	766.3	767.8	769.3	770.7
150°	795.4	794.6	793.9	793.0	791.9	790.8	789.8	788.7	789.8	790.8	791.9
152.5°	815.6	814.8	813.9	812.9	811.8	810.8	809.7	808.7	809.7	810.8	811.8
155°	842.2	841.7	841.1	840.6	840.1	839.6	839.0	838.4	839.0	839.6	840.1
157.5°	866.4	866.1	865.8	865.4	865.1	864.7	864.4	864.0	864.4	864.7	865.1
160°	881.5	881.3	881.1	880.8	880.4	880.1	879.7	879.4	879.7	880.1	880.4
162.5°	894.3	894.1	893.9	893.8	893.7	893.7	893.6	893.5	893.6	893.7	893.7
165°	911.5	911.5	911.5	911.6	911.7	912.0	912.1	912.3	912.1	912.0	911.7
167.5°	925.5	925.6	925.6	925.9	926.4	926.9	927.5	928.0	927.5	926.9	926.4
170°	933.5	933.7	933.9	934.2	934.8	935.3	935.8	936.4	935.8	935.3	934.8
172.5°	939.3	939.4	939.6	940.0	940.6	941.0	941.6	942.1	941.6	941.0	940.6
175°	945.9	946.3	946.6	947.1	947.6	948.2	948.6	949.2	948.6	948.2	947.6
177.5°	949.4	949.7	950.0	950.4	950.8	951.3	951.6	952.1	951.6	951.3	950.8
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**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°	5.9	6.3	6.8	7.6	8.2	8.7	8.4	8.3	8.2	7.7	7.7
90°	9.3	12.4	16.3	20.2	24.2	28.0	27.7	27.3	27.0	26.6	26.5
92.5°	20.6	21.8	22.7	23.7	24.6	25.5	25.6	25.7	25.7	25.8	25.8
95°	48.9	49.9	50.3	50.6	51.0	51.3	51.3	51.3	51.3	51.3	51.2
97.5°	82.5	83.7	84.3	85.0	85.6	86.3	86.3	86.3	86.3	86.3	86.3
100°	107.6	108.6	109.1	109.6	110.2	110.7	110.7	110.7	110.7	110.7	110.7
102.5°	133.4	134.4	135.0	135.7	136.3	137.0	137.2	137.4	137.4	137.6	137.6
105°	174.7	175.1	175.5	175.8	176.2	176.5	176.9	177.2	177.6	177.9	178.2
107.5°	219.6	220.0	220.0	220.0	220.0	220.0	220.1	220.3	220.5	220.5	220.2
110°	249.0	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.3



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	279.8	280.3	280.1	280.0	279.9	279.7	279.2	278.8	278.5	278.0	277.6
115°	325.2	325.6	325.2	324.9	324.5	324.2	324.0	323.8	323.6	323.4	323.1
117.5°	371.9	372.1	371.1	370.1	369.2	368.1	367.7	367.3	366.9	366.4	365.9
120°	402.1	402.1	400.7	399.3	397.8	396.4	396.4	396.4	396.4	396.4	396.1
122.5°	430.8	431.2	430.2	429.2	428.2	427.1	426.7	426.4	425.9	425.5	425.1
125°	473.4	474.0	473.4	472.9	472.3	471.8	471.3	470.7	470.2	469.7	469.3
127.5°	517.0	517.7	517.1	516.4	515.8	515.2	514.4	513.8	513.2	512.5	511.9
130°	544.5	545.4	545.1	544.7	544.4	544.0	543.7	543.3	543.0	542.6	542.0
132.5°	572.3	573.2	573.3	573.4	573.5	573.5	572.7	572.0	571.2	570.4	569.7
135°	612.0	613.1	613.5	613.9	614.3	614.6	614.4	614.3	614.1	613.9	613.5
137.5°	652.1	653.2	653.6	654.1	654.6	655.1	654.9	654.7	654.7	654.5	654.0
140°	677.2	678.4	679.4	680.2	681.1	682.0	682.0	682.0	682.0	682.0	681.7
142.5°	702.9	704.0	704.6	705.2	705.8	706.4	706.5	706.7	706.9	706.9	706.7
145°	738.4	739.5	740.6	741.6	742.8	743.8	743.9	744.2	744.3	744.5	744.3
147.5°	772.2	773.3	774.0	774.8	775.5	776.2	776.6	777.0	777.4	777.8	777.6
150°	793.0	793.9	794.6	795.4	796.1	796.8	797.3	797.8	798.4	798.9	798.9
152.5°	812.9	813.9	814.8	815.6	816.4	817.3	817.9	818.6	819.4	820.0	820.0
155°	840.6	841.1	841.7	842.2	842.7	843.3	844.1	845.1	846.0	846.8	847.0
157.5°	865.4	865.8	866.1	866.4	866.7	867.0	868.2	869.5	870.7	871.9	872.0
160°	880.8	881.1	881.3	881.5	881.6	881.8	882.9	883.9	885.0	886.1	886.3
162.5°	893.8	893.9	894.1	894.3	894.5	894.6	895.9	897.1	898.3	899.5	899.7
165°	911.6	911.5	911.5	911.5	911.5	911.5	912.8	914.0	915.2	916.5	916.6
167.5°	925.9	925.6	925.6	925.5	925.5	925.4	926.7	928.0	929.2	930.4	930.6
170°	934.2	933.9	933.7	933.5	933.3	933.2	934.4	935.6	936.9	938.2	938.3
172.5°	940.0	939.6	939.4	939.3	939.1	938.9	940.2	941.4	942.7	943.9	944.0
175°	947.1	946.6	946.3	945.9	945.5	945.2	946.4	947.7	949.0	950.1	950.3
177.5°	950.4	950.0	949.7	949.4	949.2	948.9	949.7	950.6	951.4	952.3	952.3
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**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°	7.7	7.5	7.5	7.4	7.5	7.5	7.7	7.7	7.7	8.2	8.3
90°	26.8	26.9	27.1	27.3	27.1	26.9	26.8	26.5	26.6	27.0	27.3
92.5°	25.9	25.9	26.0	26.0	26.0	25.9	25.9	25.8	25.8	25.7	25.7
95°	50.8	50.5	50.1	49.7	50.1	50.5	50.8	51.2	51.3	51.3	51.3
97.5°	86.3	86.3	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3
100°	110.4	110.3	110.1	110.0	110.1	110.3	110.4	110.7	110.7	110.7	110.7
102.5°	137.4	137.2	137.0	136.9	137.0	137.2	137.4	137.6	137.6	137.4	137.4
105°	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2	177.9	177.6	177.2
107.5°	219.4	218.6	217.8	217.0	217.8	218.6	219.4	220.2	220.5	220.5	220.3
110°	248.7	248.2	247.6	247.2	247.6	248.2	248.7	249.3	249.5	249.5	249.5



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	277.2	276.8	276.4	276.0	276.4	276.8	277.2	277.6	278.0	278.5	278.8
115°	322.6	322.0	321.5	320.9	321.5	322.0	322.6	323.1	323.4	323.6	323.8
117.5°	365.4	364.9	364.3	363.8	364.3	364.9	365.4	365.9	366.4	366.9	367.3
120°	395.5	395.1	394.5	394.0	394.5	395.1	395.5	396.1	396.4	396.4	396.4
122.5°	424.7	424.3	423.9	423.5	423.9	424.3	424.7	425.1	425.5	425.9	426.4
125°	469.1	469.0	468.7	468.6	468.7	469.0	469.1	469.3	469.7	470.2	470.7
127.5°	511.4	510.8	510.2	509.7	510.2	510.8	511.4	511.9	512.5	513.2	513.8
130°	541.3	540.6	539.9	539.2	539.9	540.6	541.3	542.0	542.6	543.0	543.3
132.5°	569.2	568.5	568.0	567.4	568.0	568.5	569.2	569.7	570.4	571.2	572.0
135°	613.0	612.4	612.0	611.4	612.0	612.4	613.0	613.5	613.9	614.1	614.3
137.5°	653.3	652.6	651.9	651.2	651.9	652.6	653.3	654.0	654.5	654.7	654.7
140°	681.0	680.2	679.5	678.8	679.5	680.2	681.0	681.7	682.0	682.0	682.0
142.5°	706.0	705.3	704.6	703.9	704.6	705.3	706.0	706.7	706.9	706.9	706.7
145°	743.5	742.8	742.1	741.4	742.1	742.8	743.5	744.3	744.5	744.3	744.2
147.5°	777.0	776.3	775.6	774.9	775.6	776.3	777.0	777.6	777.8	777.4	777.0
150°	798.4	797.8	797.3	796.8	797.3	797.8	798.4	798.9	798.9	798.4	797.8
152.5°	819.4	818.6	817.9	817.3	817.9	818.6	819.4	820.0	820.0	819.4	818.6
155°	846.5	846.0	845.4	844.9	845.4	846.0	846.5	847.0	846.8	846.0	845.1
157.5°	871.2	870.4	869.5	868.6	869.5	870.4	871.2	872.0	871.9	870.7	869.5
160°	885.6	884.9	884.2	883.4	884.2	884.9	885.6	886.3	886.1	885.0	883.9
162.5°	898.8	897.9	897.1	896.3	897.1	897.9	898.8	899.7	899.5	898.3	897.1
165°	915.8	914.9	914.0	913.1	914.0	914.9	915.8	916.6	916.5	915.2	914.0
167.5°	929.7	928.8	927.8	926.9	927.8	928.8	929.7	930.6	930.4	929.2	928.0
170°	937.2	936.1	935.0	934.0	935.0	936.1	937.2	938.3	938.2	936.9	935.6
172.5°	942.9	941.9	940.8	939.8	940.8	941.9	942.9	944.0	943.9	942.7	941.4
175°	949.2	948.2	947.1	946.0	947.1	948.2	949.2	950.3	950.1	949.0	947.7
177.5°	951.4	950.6	949.7	948.9	949.7	950.6	951.4	952.3	952.3	951.4	950.6
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**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°	8.4	8.7	8.2	7.6	6.8	6.3	5.9	5.7	5.8	5.5	5.4
90°	27.7	28.0	24.2	20.2	16.3	12.4	9.3	7.2	5.1	2.9	0.8
92.5°	25.6	25.5	24.6	23.7	22.7	21.8	20.6	19.0	17.4	15.8	14.3
95°	51.3	51.3	51.0	50.6	50.3	49.9	48.9	47.1	45.3	43.5	41.7
97.5°	86.3	86.3	85.6	85.0	84.3	83.7	82.5	81.0	79.4	77.8	76.2
100°	110.7	110.7	110.2	109.6	109.1	108.6	107.6	106.2	104.7	103.3	101.9
102.5°	137.2	137.0	136.3	135.7	135.0	134.4	133.4	132.3	131.1	130.0	128.9
105°	176.9	176.5	176.2	175.8	175.5	175.1	174.7	174.1	173.6	173.0	172.5
107.5°	220.1	220.0	220.0	220.0	220.0	220.0	219.6	218.8	218.0	217.3	216.5
110°	249.5	249.5	249.5	249.5	249.5	249.5	249.0	248.0	246.8	245.8	244.7



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	279.2	279.7	279.9	280.0	280.1	280.3	279.8	278.8	277.7	276.6	275.5
115°	324.0	324.2	324.5	324.9	325.2	325.6	325.2	324.2	323.1	322.0	320.9
117.5°	367.7	368.1	369.2	370.1	371.1	372.1	371.9	370.5	369.1	367.7	366.2
120°	396.4	396.4	397.8	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4
122.5°	426.7	427.1	428.2	429.2	430.2	431.2	430.8	429.1	427.4	425.7	424.0
125°	471.3	471.8	472.3	472.9	473.4	474.0	473.4	471.8	470.2	468.6	467.0
127.5°	514.4	515.2	515.8	516.4	517.1	517.7	517.0	515.0	512.9	510.9	508.9
130°	543.7	544.0	544.4	544.7	545.1	545.4	544.5	542.2	539.8	537.5	535.2
132.5°	572.7	573.5	573.5	573.4	573.3	573.2	572.3	570.4	568.5	566.6	564.7
135°	614.4	614.6	614.3	613.9	613.5	613.1	612.0	610.1	608.1	606.2	604.2
137.5°	654.9	655.1	654.6	654.1	653.6	653.2	652.1	650.5	649.0	647.4	645.7
140°	682.0	682.0	681.1	680.2	679.4	678.4	677.2	675.6	674.0	672.4	670.7
142.5°	706.5	706.4	705.8	705.2	704.6	704.0	702.9	701.2	699.7	698.1	696.5
145°	743.9	743.8	742.8	741.6	740.6	739.5	738.4	737.1	735.9	734.6	733.3
147.5°	776.6	776.2	775.5	774.8	774.0	773.3	772.2	770.7	769.3	767.8	766.3
150°	797.3	796.8	796.1	795.4	794.6	793.9	793.0	791.9	790.8	789.8	788.7
152.5°	817.9	817.3	816.4	815.6	814.8	813.9	812.9	811.8	810.8	809.7	808.7
155°	844.1	843.3	842.7	842.2	841.7	841.1	840.6	840.1	839.6	839.0	838.4
157.5°	868.2	867.0	866.7	866.4	866.1	865.8	865.4	865.1	864.7	864.4	864.0
160°	882.9	881.8	881.6	881.5	881.3	881.1	880.8	880.4	880.1	879.7	879.4
162.5°	895.9	894.6	894.5	894.3	894.1	893.9	893.8	893.7	893.7	893.6	893.5
165°	912.8	911.5	911.5	911.5	911.5	911.5	911.6	911.7	912.0	912.1	912.3
167.5°	926.7	925.4	925.5	925.5	925.6	925.6	925.9	926.4	926.9	927.5	928.0
170°	934.4	933.2	933.3	933.5	933.7	933.9	934.2	934.8	935.3	935.8	936.4
172.5°	940.2	938.9	939.1	939.3	939.4	939.6	940.0	940.6	941.0	941.6	942.1
175°	946.4	945.2	945.5	945.9	946.3	946.6	947.1	947.6	948.2	948.6	949.2
177.5°	949.7	948.9	949.2	949.4	949.7	950.0	950.4	950.8	951.3	951.6	952.1
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**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°	6.5	7.8	8.3	9.4	9.6	10.4	11.2	11.7	12.3	12.0	11.6
90°	2.9	5.1	7.2	9.3	12.4	16.3	20.2	24.2	28.0	27.7	27.3
92.5°	15.8	17.4	19.0	20.6	21.8	22.7	23.7	24.6	25.5	25.6	25.7
95°	43.5	45.3	47.1	48.9	49.9	50.3	50.6	51.0	51.3	51.3	51.3
97.5°	77.8	79.4	81.0	82.5	83.7	84.3	85.0	85.6	86.3	86.3	86.3
100°	103.3	104.7	106.2	107.6	108.6	109.1	109.6	110.2	110.7	110.7	110.7
102.5°	130.0	131.1	132.3	133.4	134.4	135.0	135.7	136.3	137.0	137.2	137.4
105°	173.0	173.6	174.1	174.7	175.1	175.5	175.8	176.2	176.5	176.9	177.2
107.5°	217.3	218.0	218.8	219.6	220.0	220.0	220.0	220.0	220.0	220.1	220.3
110°	245.8	246.8	248.0	249.0	249.5	249.5	249.5	249.5	249.5	249.5	249.5





TEST NUMBER: P331508-927

CATALOG NUMBER: S122DIW-S485D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	276.6	277.7	278.8	279.8	280.3	280.1	280.0	279.9	279.7	279.2	278.8
115°	322.0	323.1	324.2	325.2	325.6	325.2	324.9	324.5	324.2	324.0	323.8
117.5°	367.7	369.1	370.5	371.9	372.1	371.1	370.1	369.2	368.1	367.7	367.3
120°	397.8	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4	396.4	396.4
122.5°	425.7	427.4	429.1	430.8	431.2	430.2	429.2	428.2	427.1	426.7	426.4
125°	468.6	470.2	471.8	473.4	474.0	473.4	472.9	472.3	471.8	471.3	470.7
127.5°	510.9	512.9	515.0	517.0	517.7	517.1	516.4	515.8	515.2	514.4	513.8
130°	537.5	539.8	542.2	544.5	545.4	545.1	544.7	544.4	544.0	543.7	543.3
132.5°	566.6	568.5	570.4	572.3	573.2	573.3	573.4	573.5	573.5	572.7	572.0
135°	606.2	608.1	610.1	612.0	613.1	613.5	613.9	614.3	614.6	614.4	614.3
137.5°	647.4	649.0	650.5	652.1	653.2	653.6	654.1	654.6	655.1	654.9	654.7
140°	672.4	674.0	675.6	677.2	678.4	679.4	680.2	681.1	682.0	682.0	682.0
142.5°	698.1	699.7	701.2	702.9	704.0	704.6	705.2	705.8	706.4	706.5	706.7
145°	734.6	735.9	737.1	738.4	739.5	740.6	741.6	742.8	743.8	743.9	744.2
147.5°	767.8	769.3	770.7	772.2	773.3	774.0	774.8	775.5	776.2	776.6	777.0
150°	789.8	790.8	791.9	793.0	793.9	794.6	795.4	796.1	796.8	797.3	797.8
152.5°	809.7	810.8	811.8	812.9	813.9	814.8	815.6	816.4	817.3	817.9	818.6
155°	839.0	839.6	840.1	840.6	841.1	841.7	842.2	842.7	843.3	844.1	845.1
157.5°	864.4	864.7	865.1	865.4	865.8	866.1	866.4	866.7	867.0	868.2	869.5
160°	879.7	880.1	880.4	880.8	881.1	881.3	881.5	881.6	881.8	882.9	883.9
162.5°	893.6	893.7	893.7	893.8	893.9	894.1	894.3	894.5	894.6	895.9	897.1
165°	912.1	912.0	911.7	911.6	911.5	911.5	911.5	911.5	911.5	912.8	914.0
167.5°	927.5	926.9	926.4	925.9	925.6	925.6	925.5	925.5	925.4	926.7	928.0
170°	935.8	935.3	934.8	934.2	933.9	933.7	933.5	933.3	933.2	934.4	935.6
172.5°	941.6	941.0	940.6	940.0	939.6	939.4	939.3	939.1	938.9	940.2	941.4
175°	948.6	948.2	947.6	947.1	946.6	946.3	945.9	945.5	945.2	946.4	947.7
177.5°	951.6	951.3	950.8	950.4	950.0	949.7	949.4	949.2	948.9	949.7	950.6
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



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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°	11.8	11.7	11.5	11.5	11.8	11.6	11.6
90°	27.0	26.6	26.5	26.8	26.9	27.1	27.3
92.5°	25.7	25.8	25.8	25.9	25.9	26.0	26.0
95°	51.3	51.3	51.2	50.8	50.5	50.1	49.7
97.5°	86.3	86.3	86.3	86.3	86.3	86.2	86.2
100°	110.7	110.7	110.7	110.4	110.3	110.1	110.0
102.5°	137.4	137.6	137.6	137.4	137.2	137.0	136.9
105°	177.6	177.9	178.2	178.2	178.2	178.2	178.2
107.5°	220.5	220.5	220.2	219.4	218.6	217.8	217.0
110°	249.5	249.5	249.3	248.7	248.2	247.6	247.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	278.5	278.0	277.6	277.2	276.8	276.4	276.0
115°	323.6	323.4	323.1	322.6	322.0	321.5	320.9
117.5°	366.9	366.4	365.9	365.4	364.9	364.3	363.8
120°	396.4	396.4	396.1	395.5	395.1	394.5	394.0
122.5°	425.9	425.5	425.1	424.7	424.3	423.9	423.5
125°	470.2	469.7	469.3	469.1	469.0	468.7	468.6
127.5°	513.2	512.5	511.9	511.4	510.8	510.2	509.7
130°	543.0	542.6	542.0	541.3	540.6	539.9	539.2
132.5°	571.2	570.4	569.7	569.2	568.5	568.0	567.4
135°	614.1	613.9	613.5	613.0	612.4	612.0	611.4
137.5°	654.7	654.5	654.0	653.3	652.6	651.9	651.2
140°	682.0	682.0	681.7	681.0	680.2	679.5	678.8
142.5°	706.9	706.9	706.7	706.0	705.3	704.6	703.9
145°	744.3	744.5	744.3	743.5	742.8	742.1	741.4
147.5°	777.4	777.8	777.6	777.0	776.3	775.6	774.9
150°	798.4	798.9	798.9	798.4	797.8	797.3	796.8
152.5°	819.4	820.0	820.0	819.4	818.6	817.9	817.3
155°	846.0	846.8	847.0	846.5	846.0	845.4	844.9
157.5°	870.7	871.9	872.0	871.2	870.4	869.5	868.6
160°	885.0	886.1	886.3	885.6	884.9	884.2	883.4
162.5°	898.3	899.5	899.7	898.8	897.9	897.1	896.3
165°	915.2	916.5	916.6	915.8	914.9	914.0	913.1
167.5°	929.2	930.4	930.6	929.7	928.8	927.8	926.9
170°	936.9	938.2	938.3	937.2	936.1	935.0	934.0
172.5°	942.7	943.9	944.0	942.9	941.9	940.8	939.8
175°	949.0	950.1	950.3	949.2	948.2	947.1	946.0
177.5°	951.4	952.3	952.3	951.4	950.6	949.7	948.9
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8

(END OF REPORT)