

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: P331286-935

Luminaire Tested: **SA2XXDIP-C485D330U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331286-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

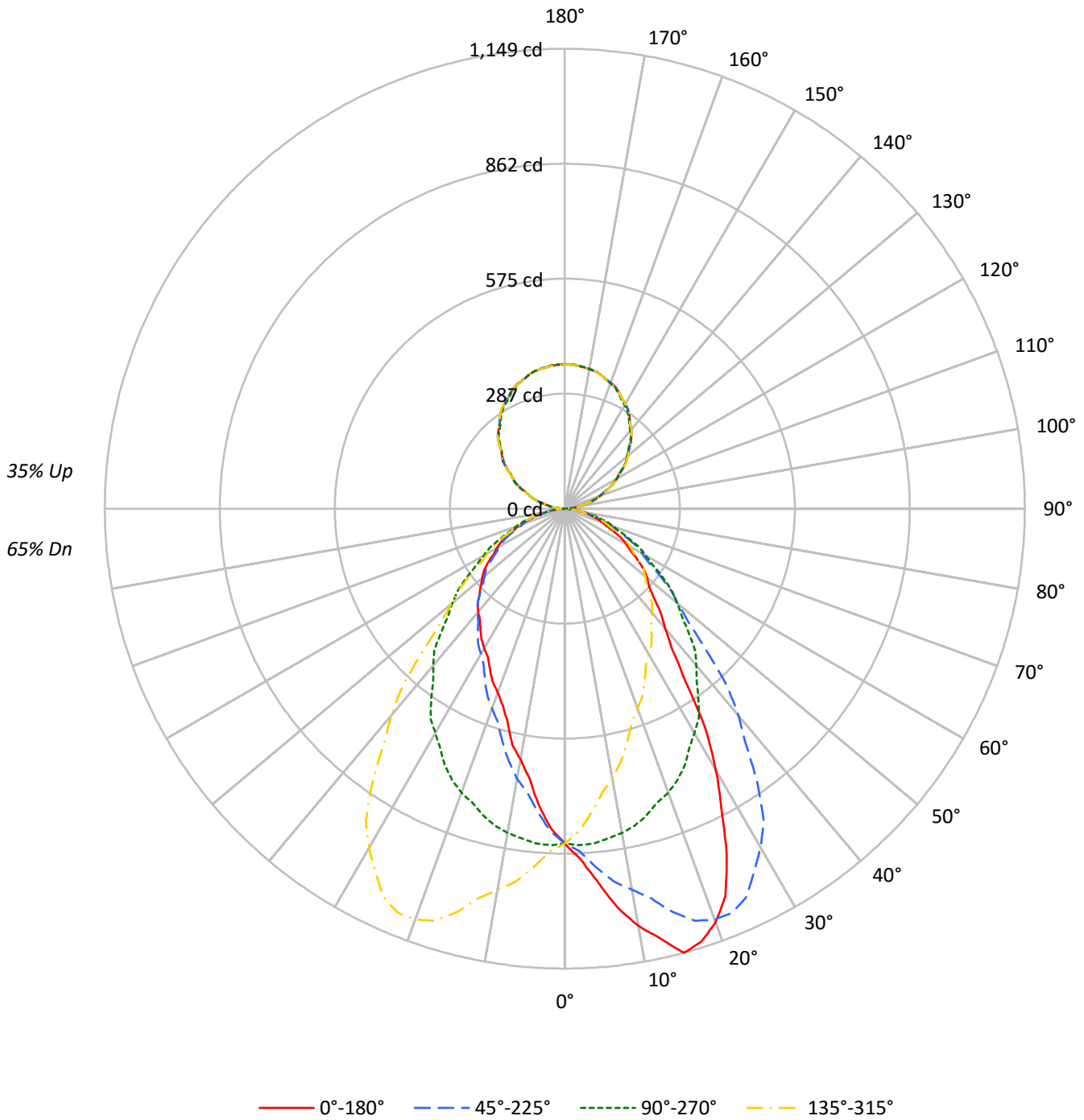
Lumens per Lamp: N/A  
Luminaire Lumens: 2855.2 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65				
1	102	97	94	90	95	92	89	86	81	79	77	71	70	68	63	61	60	56				
2	93	86	80	75	87	81	76	71	72	68	64	64	60	58	56	54	52	48				
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45	41				
4	78	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39	36				
5	72	61	53	47	68	58	50	45	52	46	41	46	42	38	41	37	34	32				
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28				
7	62	50	42	36	58	47	40	35	43	37	33	38	34	30	34	30	27	25				
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25	23				
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23	21				
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21	19				

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

	0°	90°	180°	270°
0°	13508	13508	13508	13508
5°	15144	13598	12049	13598
10°	17354	13485	10427	13485
15°	19199	13237	9212	13237
20°	18907	12972	8399	12972
25°	17047	12618	7883	12618
30°	14087	12055	7506	12055
35°	10267	11466	7238	11466
40°	8201	10768	7088	10768
45°	7165	9965	6887	9965
50°	6737	9183	6752	9183
55°	6210	8391	6570	8391
60°	5690	7550	6290	7550
65°	5184	6793	6021	6793
70°	4707	6057	5618	6057
75°	4173	5234	4972	5234
80°	3589	4342	3998	4342
85°	3223	3223	2371	3223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	2.8
10°-20°	231.6	8.1
20°-30°	336.2	11.8
30°-40°	354.8	12.4
40°-50°	314.1	11.0
50°-60°	250.7	8.8
60°-70°	170.4	6.0
70°-80°	87.4	3.1
80°-90°	22.5	0.8
90°-100°	22.8	0.8
100°-110°	70.9	2.5
110°-120°	121.3	4.2
120°-130°	159.5	5.6
130°-140°	179.0	6.3
140°-150°	175.5	6.1
150°-160°	147.2	5.2
160°-170°	97.6	3.4
170°-180°	34.1	1.2
0°-30°	647.5	22.7
0°-40°	1002.3	35.1
0°-60°	1567.1	54.9
0°-90°	1847.3	64.7
90°-120°	215.0	7.5
90°-150°	729.0	25.5
90°-180°	1008.0	35.3
0°-180°	2855.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	837	837	837	837	837	
5°	934	839	743	839	934	93
15°	1149	792	551	792	1149	317
25°	957	708	442	708	957	432
35°	521	582	367	582	521	339
45°	314	436	302	436	314	247
55°	221	298	233	298	221	198
65°	136	178	158	178	136	135
75°	67	84	80	84	67	71
85°	17	17	13	17	17	19
90°	10	0	10	0	10	5
95°	19	16	19	16	19	21
105°	68	65	68	65	68	71
115°	122	122	122	122	122	120
125°	178	177	178	177	178	158
135°	232	229	232	229	232	178
145°	281	278	281	278	281	176
155°	320	318	320	318	320	147
165°	346	346	346	346	346	98
175°	359	360	359	360	359	34
180°	360	360	360	360	360	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	875.3	875.6	876.0	871.9	871.4	871.4	867.8	864.7	861.1	856.2	856.7
5°	934.4	938.0	939.3	935.4	929.6	928.9	923.5	914.5	906.1	899.4	894.6
7.5°	1005.0	1006.4	1003.3	998.2	993.9	986.2	976.0	966.0	952.1	939.3	929.8
10°	1058.5	1060.5	1055.0	1047.6	1041.5	1032.5	1017.7	1002.5	984.3	966.6	952.4
12.5°	1099.2	1104.0	1096.9	1096.0	1085.5	1073.2	1055.5	1047.8	1022.1	997.5	982.2
15°	1148.6	1148.2	1148.9	1142.8	1135.1	1133.2	1114.5	1094.2	1057.9	1043.4	1018.3
17.5°	1134.3	1139.2	1141.4	1141.3	1141.2	1140.0	1133.9	1121.2	1102.9	1079.5	1050.6
20°	1100.4	1106.7	1107.8	1115.2	1119.3	1124.8	1127.0	1123.5	1112.2	1092.6	1067.6
22.5°	1047.8	1049.6	1052.7	1064.2	1073.2	1086.9	1094.1	1106.0	1101.6	1092.1	1071.2
25°	956.9	953.7	964.9	970.8	991.6	1013.5	1029.2	1046.6	1062.0	1071.4	1065.3
27.5°	847.7	842.9	859.8	875.1	892.1	915.8	940.3	969.3	993.4	1023.6	1034.0
30°	755.6	758.5	774.6	791.0	816.7	850.2	877.8	909.6	944.1	977.8	1001.3
32.5°	656.3	667.4	677.6	702.7	725.4	762.7	803.2	843.0	886.0	924.3	960.6
35°	520.9	533.7	547.9	566.3	598.1	635.1	674.6	728.3	786.9	839.2	882.4
37.5°	438.4	436.4	444.5	457.8	483.5	513.4	558.9	612.0	680.9	742.4	803.2
40°	389.1	387.8	393.6	405.8	425.4	447.3	487.2	533.7	597.8	673.0	745.4
42.5°	355.1	355.9	359.1	367.7	381.2	399.2	429.0	468.7	527.3	598.1	675.9
45°	313.8	316.1	319.6	323.8	331.5	346.3	363.0	391.3	437.6	496.8	573.3
47.5°	284.1	284.2	287.7	291.4	296.0	304.4	318.1	335.8	368.4	416.6	482.4
50°	268.2	265.9	268.5	271.4	276.2	282.0	291.0	307.7	329.6	368.5	423.4
52.5°	248.7	248.7	251.0	252.1	256.4	262.2	270.4	282.0	301.8	332.3	377.5
55°	220.6	222.2	223.5	225.4	229.3	233.4	239.9	247.6	263.0	285.9	319.3
57.5°	194.2	194.8	196.0	199.7	202.2	206.0	212.1	219.1	229.1	246.1	271.2
60°	176.2	176.2	178.7	180.4	183.6	187.4	192.3	199.1	208.0	221.9	242.1
62.5°	159.7	159.5	160.5	163.2	165.6	169.2	174.0	179.8	188.2	200.5	217.1
65°	135.7	135.1	137.0	137.6	140.2	143.7	147.6	153.7	160.5	169.4	184.3
67.5°	112.5	113.3	114.3	115.5	117.0	120.7	123.3	127.6	133.3	140.8	150.8
70°	99.7	99.7	99.7	100.7	102.5	104.5	107.1	110.6	116.1	122.5	131.5
72.5°	85.2	86.3	87.3	86.8	89.2	90.3	93.4	95.4	100.7	104.8	112.7
75°	66.9	66.9	66.9	68.4	69.5	70.4	72.3	74.3	76.9	82.0	86.2
77.5°	49.9	49.8	50.1	50.5	51.5	52.7	53.2	55.0	57.3	59.8	63.3
80°	38.6	39.3	39.5	40.2	40.2	40.8	41.2	43.4	45.0	46.7	48.9
82.5°	29.9	30.0	30.0	30.1	30.4	30.8	31.6	32.4	32.9	34.3	36.0
85°	17.4	17.0	17.0	17.7	17.4	17.4	18.0	18.7	18.7	18.9	20.0
87.5°	8.8	8.8	9.0	8.7	8.7	9.0	9.0	8.8	9.0	9.3	9.3
90°	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4	10.5	10.7	9.1
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7	9.7	9.6	9.3
95°	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.5
100°	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0	42.0	42.0	41.8
102.5°	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1	52.0	51.9	51.7
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2	67.1	66.9	66.8
107.5°	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5	83.4	83.4	83.4
110°	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7	105.9	106.1	106.1
115°	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8	122.9	122.9	123.0
117.5°	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2	139.4	139.6	139.9
120°	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2	150.2	150.2	150.8
122.5°	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6	161.8	162.0	162.3
125°	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5	178.7	178.8	179.1
127.5°	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8	195.0	195.3	195.5
130°	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0	206.1	206.2	206.4
132.5°	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8	217.1	217.4	217.4
135°	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9	232.9	233.0	232.9
137.5°	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2	248.3	248.3	248.1
140°	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6	258.6	258.6	258.2
142.5°	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9	267.9	267.8	267.6
145°	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1	282.1	282.0	281.5
147.5°	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5	294.5	294.3	294.0
150°	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5	302.3	302.0	301.8
152.5°	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4	310.1	309.9	309.5
155°	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4	320.0	319.7	319.5
157.5°	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6	329.2	328.7	328.6
160°	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1	334.7	334.3	334.2
162.5°	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1	339.7	339.1	339.1
165°	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5	346.0	345.5	345.5
167.5°	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8	351.3	350.9	350.9
170°	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7	354.2	353.8	353.9
172.5°	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9	356.5	355.9	356.0
175°	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3	358.8	358.3	358.4
177.5°	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4	360.1	359.7	359.8
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	858.5	856.4	855.1	850.6	846.4	842.3	841.0	841.5	835.9	830.5	828.2
5°	892.0	885.5	879.4	870.7	860.5	849.2	843.4	839.0	827.7	815.5	808.4
7.5°	922.0	912.7	901.0	884.7	869.7	852.0	840.7	830.8	814.2	797.0	786.5
10°	940.2	927.6	912.6	892.6	874.3	852.7	837.7	822.5	803.2	782.6	769.8
12.5°	955.9	939.0	924.1	898.5	876.8	849.9	832.0	810.7	790.4	765.9	753.3
15°	993.2	962.1	933.8	904.8	878.1	840.5	820.6	791.9	765.3	735.0	720.6
17.5°	1022.1	987.1	942.5	905.8	874.6	832.9	803.7	769.4	737.8	703.3	683.6
20°	1038.6	998.4	950.5	906.8	869.4	821.9	790.1	755.0	718.0	679.1	657.9
22.5°	1048.4	1006.2	958.7	902.9	859.2	812.9	772.8	734.4	696.9	655.0	632.7
25°	1051.5	1012.9	962.7	899.7	846.3	793.9	745.6	708.3	663.1	623.8	591.3
27.5°	1036.1	1008.5	960.3	893.6	831.5	770.2	716.4	674.2	626.3	583.8	551.0
30°	1017.4	1001.3	954.3	887.4	819.6	753.7	694.6	646.6	599.1	555.9	522.5
32.5°	988.3	984.8	943.6	878.7	807.0	732.9	671.7	623.2	570.5	528.1	496.3
35°	931.2	946.7	920.6	859.2	783.3	703.3	637.0	581.7	527.0	486.5	456.6
37.5°	854.7	893.0	886.2	830.5	751.2	671.0	597.8	540.0	487.9	447.0	417.7
40°	801.9	850.8	857.9	808.7	728.7	646.0	568.5	510.9	460.1	422.8	393.2
42.5°	745.4	802.5	821.9	782.5	704.0	619.7	542.3	482.7	432.4	396.1	369.9
45°	650.5	726.1	761.1	738.6	662.7	576.5	496.8	436.4	390.7	356.6	336.3
47.5°	561.8	644.4	691.6	683.5	616.8	531.5	452.7	394.7	350.3	323.0	304.9
50°	499.0	583.9	640.8	643.4	583.9	499.4	420.3	365.6	324.8	299.4	284.6
52.5°	444.5	525.6	587.6	601.2	547.2	465.9	391.2	336.8	300.8	277.5	264.2
55°	373.3	441.8	510.7	535.7	492.3	415.1	345.9	298.1	264.3	248.2	236.7
57.5°	310.4	367.5	431.0	458.7	432.0	365.9	301.1	259.5	232.1	218.0	209.1
60°	277.2	322.2	378.8	411.9	388.7	329.9	273.3	233.8	211.3	198.7	190.4
62.5°	246.3	286.2	334.0	364.3	351.7	296.2	245.6	210.6	191.2	179.4	173.4
65°	203.2	234.7	271.7	299.7	291.4	249.2	207.8	177.8	162.4	153.1	148.3
67.5°	167.3	190.1	215.8	240.2	233.5	203.6	170.4	147.1	135.5	127.5	124.7
70°	144.7	162.0	184.9	204.5	199.1	174.6	148.3	128.3	118.3	111.6	108.7
72.5°	123.1	137.3	154.8	170.8	167.1	146.8	124.8	109.8	102.1	95.9	93.5
75°	92.9	103.8	114.5	125.1	124.2	108.4	95.5	83.9	77.8	73.0	72.1
77.5°	68.6	74.7	82.0	88.3	86.5	77.5	67.4	60.8	56.3	53.0	52.5
80°	52.4	56.0	61.1	65.6	63.4	59.5	51.5	46.7	43.4	40.2	38.9
82.5°	38.0	41.6	44.6	47.1	45.4	41.8	36.8	33.5	31.6	29.4	28.8
85°	20.0	21.9	23.2	23.8	23.2	20.9	18.7	17.4	15.8	14.8	14.5
87.5°	9.2	9.0	8.7	9.0	8.0	7.8	6.6	5.7	5.6	5.5	5.2
90°	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3	1.1	1.9	2.8
92.5°	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4	6.0	6.6	7.2
95°	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8	16.5	17.1	17.8
97.5°	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9	29.5	30.0	30.7
100°	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7	39.2	39.7	40.3
102.5°	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8	49.2	49.7	50.1
105°	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4	65.6	65.8	66.0
107.5°	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1	82.4	82.7	83.0
110°	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8	93.2	93.6	94.0





TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4	104.9	105.3	105.6
115°	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7	122.1	122.5	122.9
117.5°	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8	139.4	139.9	140.4
120°	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.8	151.4	151.9
122.5°	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7	161.4	162.0	162.6
125°	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0	177.6	178.2	178.8
127.5°	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0	193.7	194.5	195.2
130°	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9	203.8	204.7	205.5
132.5°	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1	214.8	215.5	216.2
135°	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0	229.8	230.6	231.3
137.5°	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8	245.4	246.0	246.7
140°	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3	254.9	255.5	256.1
142.5°	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1	264.7	265.3	265.9
145°	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0	278.5	279.0	279.5
147.5°	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5	291.1	291.6	292.2
150°	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0	299.5	299.8	300.2
152.5°	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6	306.9	307.4	307.8
155°	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9	318.1	318.3	318.5
157.5°	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5	327.7	327.8	328.0
160°	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4	333.6	333.6	333.8
162.5°	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7	338.8	338.8	338.8
165°	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9	345.8	345.7	345.7
167.5°	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8	351.6	351.5	351.2
170°	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0	354.8	354.6	354.4
172.5°	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1	357.0	356.8	356.5
175°	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9	359.6	359.5	359.2
177.5°	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9	360.8	360.6	360.5
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	825.6	824.1	818.6	815.8	811.2	806.8	804.0	805.3	806.3	805.8	805.0
5°	801.9	795.8	786.5	778.4	772.7	762.1	757.6	755.4	753.4	751.1	748.9
7.5°	773.8	764.1	750.8	739.3	728.5	715.3	707.8	703.3	698.6	693.5	689.1
10°	753.7	740.2	726.1	710.0	697.2	685.2	674.6	667.5	661.1	655.0	650.5
12.5°	732.6	717.0	699.6	677.6	663.4	646.4	644.8	632.3	622.2	618.5	613.2
15°	699.0	677.2	655.0	629.0	617.7	602.3	592.6	583.0	574.3	568.2	566.5
17.5°	660.9	632.6	610.5	591.9	573.4	557.6	548.7	541.0	533.8	525.6	524.6
20°	631.8	607.4	583.3	566.9	547.9	531.8	520.9	513.2	507.0	502.2	498.1
22.5°	604.3	577.6	555.5	537.5	518.8	505.8	497.2	489.8	484.7	479.4	475.4
25°	560.2	539.2	515.1	494.9	479.4	471.1	464.0	457.5	454.3	450.8	446.3
27.5°	521.5	498.3	475.7	460.0	446.4	439.0	434.0	429.6	426.6	424.6	422.0
30°	494.2	470.7	453.1	437.6	426.4	419.0	415.8	413.2	409.7	408.4	407.1
32.5°	468.0	446.9	431.7	418.4	407.6	402.8	399.8	397.5	394.8	393.5	390.9
35°	430.8	413.2	398.4	391.0	382.3	378.2	375.9	372.6	370.1	368.9	368.5
37.5°	396.0	380.6	370.8	361.4	357.7	355.1	352.1	349.8	349.0	348.9	348.5
40°	373.3	360.8	352.1	344.4	342.8	338.9	336.3	334.4	334.4	334.8	334.4
42.5°	352.8	341.5	333.8	327.2	325.3	323.0	320.4	320.3	320.8	321.8	320.8
45°	321.6	313.5	308.1	304.8	301.3	299.0	298.7	299.7	300.0	300.3	301.3
47.5°	292.8	287.5	282.6	279.1	277.5	277.1	276.7	278.4	279.9	280.5	282.0
50°	275.9	269.8	265.6	263.4	262.1	261.4	262.1	264.0	265.3	266.9	267.9
52.5°	256.8	252.5	249.7	247.9	247.4	247.8	247.9	250.1	252.2	252.7	253.2
55°	230.6	227.3	226.7	223.8	225.1	224.7	226.4	227.6	229.5	231.5	231.9
57.5°	204.3	201.7	200.0	200.3	200.6	202.1	203.4	205.7	207.8	209.7	210.0
60°	186.8	185.5	184.6	184.6	185.2	187.2	188.7	191.0	192.3	193.6	194.5
62.5°	170.9	169.6	168.6	169.1	170.8	171.9	173.8	175.0	176.3	177.6	178.1
65°	145.7	145.0	146.0	146.6	147.0	148.5	150.8	151.8	153.1	153.7	155.9
67.5°	122.4	122.6	122.4	123.4	125.2	125.6	127.7	130.0	130.3	131.5	132.9
70°	106.8	107.4	108.1	108.7	110.3	110.9	112.5	113.5	114.8	115.7	116.8
72.5°	92.4	92.5	93.2	93.0	94.4	95.7	97.1	98.1	99.4	100.6	101.5
75°	71.0	71.0	71.7	72.1	73.6	75.3	74.9	75.6	76.9	78.2	78.8
77.5°	51.9	51.2	51.9	52.2	52.7	54.1	54.3	55.3	56.7	56.3	57.0
80°	39.5	38.6	39.5	39.9	39.9	41.5	41.5	42.1	43.0	42.1	43.0
82.5°	28.2	27.8	28.5	28.6	29.1	29.1	29.6	29.8	30.7	30.3	30.7
85°	14.1	13.9	14.1	13.9	14.1	14.5	14.5	14.1	14.1	14.8	13.9
87.5°	5.1	5.1	5.1	5.4	5.4	5.5	5.2	5.2	5.2	4.6	4.6
90°	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4	10.2	10.1	10.1
92.5°	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7	9.7	9.8	9.8
95°	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7	32.7	32.7	32.7
100°	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0	42.0	42.0	41.9
102.5°	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1	52.1	52.2	52.2
105°	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2	67.3	67.5	67.5
107.5°	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.6	83.6	83.5
110°	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.5



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7	105.6	105.4	105.2
115°	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8	122.7	122.6	122.5
117.5°	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2	139.1	138.9	138.7
120°	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2	150.2	150.2	150.2
122.5°	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6	161.4	161.3	161.2
125°	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5	178.2	178.1	177.9
127.5°	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8	194.6	194.3	194.1
130°	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0	205.9	205.7	205.5
132.5°	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8	216.5	216.3	216.0
135°	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9	232.8	232.7	232.6
137.5°	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2	248.1	248.1	248.0
140°	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6	258.6	258.6	258.4
142.5°	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9	267.9	268.0	267.9
145°	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1	282.1	282.2	282.1
147.5°	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5	294.7	294.9	294.8
150°	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5	302.6	302.9	302.9
152.5°	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4	310.6	310.9	310.9
155°	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4	320.7	321.1	321.2
157.5°	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6	330.1	330.5	330.6
160°	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1	335.5	336.0	336.0
162.5°	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1	340.5	341.0	341.0
165°	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5	347.0	347.4	347.5
167.5°	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8	352.2	352.8	352.8
170°	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7	355.2	355.7	355.7
172.5°	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9	357.4	357.8	357.9
175°	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3	359.7	360.2	360.2
177.5°	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4	360.7	361.0	361.0
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	802.5	801.9	801.9	799.6	801.9	801.9	802.5	805.0	805.8	806.3	805.3
5°	744.4	743.4	741.8	743.4	741.8	743.4	744.4	748.9	751.1	753.4	755.4
7.5°	687.0	683.1	682.5	678.7	682.5	683.1	687.0	689.1	693.5	698.6	703.3
10°	645.1	642.5	642.1	636.0	642.1	642.5	645.1	650.5	655.0	661.1	667.5
12.5°	613.1	606.9	608.2	604.7	608.2	606.9	613.1	613.2	618.5	622.2	632.3
15°	557.8	557.8	556.6	551.1	556.6	557.8	557.8	566.5	568.2	574.3	583.0
17.5°	518.2	517.5	514.4	516.0	514.4	517.5	518.2	524.6	525.6	533.8	541.0
20°	494.6	492.6	488.8	488.8	488.8	492.6	494.6	498.1	502.2	507.0	513.2
22.5°	472.2	472.0	468.0	469.2	468.0	472.0	472.2	475.4	479.4	484.7	489.8
25°	446.0	443.4	441.5	442.5	441.5	443.4	446.0	446.3	450.8	454.3	457.5
27.5°	421.2	419.7	419.7	417.0	419.7	419.7	421.2	422.0	424.6	426.6	429.6
30°	406.7	403.6	404.2	402.6	404.2	403.6	406.7	407.1	408.4	409.7	413.2
32.5°	390.3	389.2	388.5	387.1	388.5	389.2	390.3	390.9	393.5	394.8	397.5
35°	367.8	368.2	366.5	367.2	366.5	368.2	367.8	368.5	368.9	370.1	372.6
37.5°	348.3	349.3	348.5	348.7	348.5	349.3	348.3	348.5	348.9	349.0	349.8
40°	335.4	335.4	335.4	336.3	335.4	335.4	335.4	334.4	334.8	334.4	334.4
42.5°	323.0	322.5	322.0	321.9	322.0	322.5	323.0	320.8	321.8	320.8	320.3
45°	302.0	302.9	303.2	301.6	303.2	302.9	302.0	301.3	300.3	300.0	299.7
47.5°	282.8	282.9	282.8	284.2	282.8	282.9	282.8	282.0	280.5	279.9	278.4
50°	269.5	268.8	269.5	268.8	269.5	268.8	269.5	267.9	266.9	265.3	264.0
52.5°	255.3	255.5	255.0	254.9	255.0	255.5	255.3	253.2	252.7	252.2	250.1
55°	233.2	233.8	233.4	233.4	233.4	233.8	233.2	231.9	231.5	229.5	227.6
57.5°	210.2	210.8	211.2	209.7	211.2	210.8	210.2	210.0	209.7	207.8	205.7
60°	194.2	195.8	195.5	194.8	195.5	195.8	194.2	194.5	193.6	192.3	191.0
62.5°	179.5	180.1	180.0	179.9	180.0	180.1	179.5	178.1	177.6	176.3	175.0
65°	156.9	157.6	156.6	157.6	156.6	157.6	156.9	155.9	153.7	153.1	151.8
67.5°	132.5	132.8	133.5	133.9	133.5	132.8	132.5	132.9	131.5	130.3	130.0
70°	117.4	117.0	118.0	119.0	118.0	117.0	117.4	116.8	115.7	114.8	113.5
72.5°	101.4	102.1	101.8	102.5	101.8	102.1	101.4	101.5	100.6	99.4	98.1
75°	78.2	79.1	78.8	79.7	78.8	79.1	78.2	78.8	78.2	76.9	75.6
77.5°	56.5	56.6	56.5	57.0	56.5	56.6	56.5	57.0	56.3	56.7	55.3
80°	43.0	42.4	41.8	43.0	41.8	42.4	43.0	43.0	42.1	43.0	42.1
82.5°	30.0	30.4	29.7	29.7	29.7	30.4	30.0	30.7	30.3	30.7	29.8
85°	13.9	13.5	12.8	12.8	12.8	13.5	13.9	13.9	14.8	14.1	14.1
87.5°	4.6	4.4	4.4	4.1	4.4	4.4	4.6	4.6	4.6	5.2	5.2
90°	10.2	10.2	10.2	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7
95°	19.3	19.1	19.0	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5
97.5°	32.7	32.7	32.7	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7
100°	41.8	41.8	41.8	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0
102.5°	52.1	52.0	52.0	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2
107.5°	83.2	82.9	82.6	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5
110°	94.3	94.1	93.9	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	105.1	105.0	104.8	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7
115°	122.3	122.1	121.9	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8
117.5°	138.5	138.4	138.1	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2
120°	150.0	149.7	149.6	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2
122.5°	161.0	160.8	160.7	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6
125°	177.9	177.8	177.7	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5
127.5°	193.9	193.6	193.5	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8
130°	205.3	204.9	204.7	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0
132.5°	215.8	215.6	215.3	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8
135°	232.4	232.2	232.0	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9
137.5°	247.7	247.5	247.2	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2
140°	258.1	257.9	257.6	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6
142.5°	267.7	267.3	267.1	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9
145°	281.9	281.6	281.4	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1
147.5°	294.5	294.3	294.0	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5
150°	302.6	302.5	302.3	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5
152.5°	310.6	310.4	310.1	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4
155°	320.9	320.7	320.6	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4
157.5°	330.3	329.9	329.7	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6
160°	335.7	335.4	335.2	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1
162.5°	340.8	340.4	340.1	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1
165°	347.2	346.8	346.5	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5
167.5°	352.5	352.1	351.7	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8
170°	355.3	354.9	354.5	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7
172.5°	357.5	357.1	356.7	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9
175°	359.9	359.5	359.0	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3
177.5°	360.7	360.4	360.1	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	804.0	806.8	811.2	815.8	818.6	824.1	825.6	828.2	830.5	835.9	841.5
5°	757.6	762.1	772.7	778.4	786.5	795.8	801.9	808.4	815.5	827.7	839.0
7.5°	707.8	715.3	728.5	739.3	750.8	764.1	773.8	786.5	797.0	814.2	830.8
10°	674.6	685.2	697.2	710.0	726.1	740.2	753.7	769.8	782.6	803.2	822.5
12.5°	644.8	646.4	663.4	677.6	699.6	717.0	732.6	753.3	765.9	790.4	810.7
15°	592.6	602.3	617.7	629.0	655.0	677.2	699.0	720.6	735.0	765.3	791.9
17.5°	548.7	557.6	573.4	591.9	610.5	632.6	660.9	683.6	703.3	737.8	769.4
20°	520.9	531.8	547.9	566.9	583.3	607.4	631.8	657.9	679.1	718.0	755.0
22.5°	497.2	505.8	518.8	537.5	555.5	577.6	604.3	632.7	655.0	696.9	734.4
25°	464.0	471.1	479.4	494.9	515.1	539.2	560.2	591.3	623.8	663.1	708.3
27.5°	434.0	439.0	446.4	460.0	475.7	498.3	521.5	551.0	583.8	626.3	674.2
30°	415.8	419.0	426.4	437.6	453.1	470.7	494.2	522.5	555.9	599.1	646.6
32.5°	399.8	402.8	407.6	418.4	431.7	446.9	468.0	496.3	528.1	570.5	623.2
35°	375.9	378.2	382.3	391.0	398.4	413.2	430.8	456.6	486.5	527.0	581.7
37.5°	352.1	355.1	357.7	361.4	370.8	380.6	396.0	417.7	447.0	487.9	540.0
40°	336.3	338.9	342.8	344.4	352.1	360.8	373.3	393.2	422.8	460.1	510.9
42.5°	320.4	323.0	325.3	327.2	333.8	341.5	352.8	369.9	396.1	432.4	482.7
45°	298.7	299.0	301.3	304.8	308.1	313.5	321.6	336.3	356.6	390.7	436.4
47.5°	276.7	277.1	277.5	279.1	282.6	287.5	292.8	304.9	323.0	350.3	394.7
50°	262.1	261.4	262.1	263.4	265.6	269.8	275.9	284.6	299.4	324.8	365.6
52.5°	247.9	247.8	247.4	247.9	249.7	252.5	256.8	264.2	277.5	300.8	336.8
55°	226.4	224.7	225.1	223.8	226.7	227.3	230.6	236.7	248.2	264.3	298.1
57.5°	203.4	202.1	200.6	200.3	200.0	201.7	204.3	209.1	218.0	232.1	259.5
60°	188.7	187.2	185.2	184.6	184.6	185.5	186.8	190.4	198.7	211.3	233.8
62.5°	173.8	171.9	170.8	169.1	168.6	169.6	170.9	173.4	179.4	191.2	210.6
65°	150.8	148.5	147.0	146.6	146.0	145.0	145.7	148.3	153.1	162.4	177.8
67.5°	127.7	125.6	125.2	123.4	122.4	122.6	122.4	124.7	127.5	135.5	147.1
70°	112.5	110.9	110.3	108.7	108.1	107.4	106.8	108.7	111.6	118.3	128.3
72.5°	97.1	95.7	94.4	93.0	93.2	92.5	92.4	93.5	95.9	102.1	109.8
75°	74.9	75.3	73.6	72.1	71.7	71.0	71.0	72.1	73.0	77.8	83.9
77.5°	54.3	54.1	52.7	52.2	51.9	51.2	51.9	52.5	53.0	56.3	60.8
80°	41.5	41.5	39.9	39.9	39.5	38.6	39.5	38.9	40.2	43.4	46.7
82.5°	29.6	29.1	29.1	28.6	28.5	27.8	28.2	28.8	29.4	31.6	33.5
85°	14.5	14.5	14.1	13.9	14.1	13.9	14.1	14.5	14.8	15.8	17.4
87.5°	5.2	5.5	5.4	5.4	5.1	5.1	5.1	5.2	5.5	5.6	5.7
90°	10.5	10.7	9.1	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3
92.5°	9.7	9.6	9.3	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4
95°	19.5	19.5	19.4	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8
97.5°	32.7	32.7	32.5	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9
100°	42.0	42.0	41.8	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7
102.5°	52.0	51.9	51.7	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8
105°	67.1	66.9	66.8	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4
107.5°	83.4	83.4	83.4	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1
110°	94.6	94.6	94.6	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	105.9	106.1	106.1	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4
115°	122.9	122.9	123.0	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7
117.5°	139.4	139.6	139.9	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8
120°	150.2	150.2	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2
122.5°	161.8	162.0	162.3	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7
125°	178.7	178.8	179.1	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0
127.5°	195.0	195.3	195.5	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0
130°	206.1	206.2	206.4	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9
132.5°	217.1	217.4	217.4	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1
135°	232.9	233.0	232.9	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0
137.5°	248.3	248.3	248.1	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8
140°	258.6	258.6	258.2	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3
142.5°	267.9	267.8	267.6	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1
145°	282.1	282.0	281.5	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0
147.5°	294.5	294.3	294.0	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5
150°	302.3	302.0	301.8	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0
152.5°	310.1	309.9	309.5	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6
155°	320.0	319.7	319.5	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9
157.5°	329.2	328.7	328.6	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5
160°	334.7	334.3	334.2	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4
162.5°	339.7	339.1	339.1	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7
165°	346.0	345.5	345.5	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9
167.5°	351.3	350.9	350.9	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8
170°	354.2	353.8	353.9	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0
172.5°	356.5	355.9	356.0	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1
175°	358.8	358.3	358.4	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9
177.5°	360.1	359.7	359.8	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.0	842.3	846.4	850.6	855.1	856.4	858.5	856.7	856.2	861.1	864.7
5°	843.4	849.2	860.5	870.7	879.4	885.5	892.0	894.6	899.4	906.1	914.5
7.5°	840.7	852.0	869.7	884.7	901.0	912.7	922.0	929.8	939.3	952.1	966.0
10°	837.7	852.7	874.3	892.6	912.6	927.6	940.2	952.4	966.6	984.3	1002.5
12.5°	832.0	849.9	876.8	898.5	924.1	939.0	955.9	982.2	997.5	1022.1	1047.8
15°	820.6	840.5	878.1	904.8	933.8	962.1	993.2	1018.3	1043.4	1057.9	1094.2
17.5°	803.7	832.9	874.6	905.8	942.5	987.1	1022.1	1050.6	1079.5	1102.9	1121.2
20°	790.1	821.9	869.4	906.8	950.5	998.4	1038.6	1067.6	1092.6	1112.2	1123.5
22.5°	772.8	812.9	859.2	902.9	958.7	1006.2	1048.4	1071.2	1092.1	1101.6	1106.0
25°	745.6	793.9	846.3	899.7	962.7	1012.9	1051.5	1065.3	1071.4	1062.0	1046.6
27.5°	716.4	770.2	831.5	893.6	960.3	1008.5	1036.1	1034.0	1023.6	993.4	969.3
30°	694.6	753.7	819.6	887.4	954.3	1001.3	1017.4	1001.3	977.8	944.1	909.6
32.5°	671.7	732.9	807.0	878.7	943.6	984.8	988.3	960.6	924.3	886.0	843.0
35°	637.0	703.3	783.3	859.2	920.6	946.7	931.2	882.4	839.2	786.9	728.3
37.5°	597.8	671.0	751.2	830.5	886.2	893.0	854.7	803.2	742.4	680.9	612.0
40°	568.5	646.0	728.7	808.7	857.9	850.8	801.9	745.4	673.0	597.8	533.7
42.5°	542.3	619.7	704.0	782.5	821.9	802.5	745.4	675.9	598.1	527.3	468.7
45°	496.8	576.5	662.7	738.6	761.1	726.1	650.5	573.3	496.8	437.6	391.3
47.5°	452.7	531.5	616.8	683.5	691.6	644.4	561.8	482.4	416.6	368.4	335.8
50°	420.3	499.4	583.9	643.4	640.8	583.9	499.0	423.4	368.5	329.6	307.7
52.5°	391.2	465.9	547.2	601.2	587.6	525.6	444.5	377.5	332.3	301.8	282.0
55°	345.9	415.1	492.3	535.7	510.7	441.8	373.3	319.3	285.9	263.0	247.6
57.5°	301.1	365.9	432.0	458.7	431.0	367.5	310.4	271.2	246.1	229.1	219.1
60°	273.3	329.9	388.7	411.9	378.8	322.2	277.2	242.1	221.9	208.0	199.1
62.5°	245.6	296.2	351.7	364.3	334.0	286.2	246.3	217.1	200.5	188.2	179.8
65°	207.8	249.2	291.4	299.7	271.7	234.7	203.2	184.3	169.4	160.5	153.7
67.5°	170.4	203.6	233.5	240.2	215.8	190.1	167.3	150.8	140.8	133.3	127.6
70°	148.3	174.6	199.1	204.5	184.9	162.0	144.7	131.5	122.5	116.1	110.6
72.5°	124.8	146.8	167.1	170.8	154.8	137.3	123.1	112.7	104.8	100.7	95.4
75°	95.5	108.4	124.2	125.1	114.5	103.8	92.9	86.2	82.0	76.9	74.3
77.5°	67.4	77.5	86.5	88.3	82.0	74.7	68.6	63.3	59.8	57.3	55.0
80°	51.5	59.5	63.4	65.6	61.1	56.0	52.4	48.9	46.7	45.0	43.4
82.5°	36.8	41.8	45.4	47.1	44.6	41.6	38.0	36.0	34.3	32.9	32.4
85°	18.7	20.9	23.2	23.8	23.2	21.9	20.0	20.0	18.9	18.7	18.7
87.5°	6.6	7.8	8.0	9.0	8.7	9.0	9.2	9.3	9.3	9.0	8.8
90°	1.1	1.9	2.8	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4
92.5°	6.0	6.6	7.2	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7
95°	16.5	17.1	17.8	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5
97.5°	29.5	30.0	30.7	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7
100°	39.2	39.7	40.3	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0
102.5°	49.2	49.7	50.1	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1
105°	65.6	65.8	66.0	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2
107.5°	82.4	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5
110°	93.2	93.6	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6





TEST NUMBER: P331286-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.9	105.3	105.6	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7
115°	122.1	122.5	122.9	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8
117.5°	139.4	139.9	140.4	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2
120°	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2
122.5°	161.4	162.0	162.6	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6
125°	177.6	178.2	178.8	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5
127.5°	193.7	194.5	195.2	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8
130°	203.8	204.7	205.5	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0
132.5°	214.8	215.5	216.2	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8
135°	229.8	230.6	231.3	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9
137.5°	245.4	246.0	246.7	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2
140°	254.9	255.5	256.1	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6
142.5°	264.7	265.3	265.9	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9
145°	278.5	279.0	279.5	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1
147.5°	291.1	291.6	292.2	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5
150°	299.5	299.8	300.2	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5
152.5°	306.9	307.4	307.8	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4
155°	318.1	318.3	318.5	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4
157.5°	327.7	327.8	328.0	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6
160°	333.6	333.6	333.8	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1
162.5°	338.8	338.8	338.8	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1
165°	345.8	345.7	345.7	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5
167.5°	351.6	351.5	351.2	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8
170°	354.8	354.6	354.4	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7
172.5°	357.0	356.8	356.5	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9
175°	359.6	359.5	359.2	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3
177.5°	360.8	360.6	360.5	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	867.8	871.4	871.4	871.9	876.0	875.6	875.3
5°	923.5	928.9	929.6	935.4	939.3	938.0	934.4
7.5°	976.0	986.2	993.9	998.2	1003.3	1006.4	1005.0
10°	1017.7	1032.5	1041.5	1047.6	1055.0	1060.5	1058.5
12.5°	1055.5	1073.2	1085.5	1096.0	1096.9	1104.0	1099.2
15°	1114.5	1133.2	1135.1	1142.8	1148.9	1148.2	1148.6
17.5°	1133.9	1140.0	1141.2	1141.3	1141.4	1139.2	1134.3
20°	1127.0	1124.8	1119.3	1115.2	1107.8	1106.7	1100.4
22.5°	1094.1	1086.9	1073.2	1064.2	1052.7	1049.6	1047.8
25°	1029.2	1013.5	991.6	970.8	964.9	953.7	956.9
27.5°	940.3	915.8	892.1	875.1	859.8	842.9	847.7
30°	877.8	850.2	816.7	791.0	774.6	758.5	755.6
32.5°	803.2	762.7	725.4	702.7	677.6	667.4	656.3
35°	674.6	635.1	598.1	566.3	547.9	533.7	520.9
37.5°	558.9	513.4	483.5	457.8	444.5	436.4	438.4
40°	487.2	447.3	425.4	405.8	393.6	387.8	389.1
42.5°	429.0	399.2	381.2	367.7	359.1	355.9	355.1
45°	363.0	346.3	331.5	323.8	319.6	316.1	313.8
47.5°	318.1	304.4	296.0	291.4	287.7	284.2	284.1
50°	291.0	282.0	276.2	271.4	268.5	265.9	268.2
52.5°	270.4	262.2	256.4	252.1	251.0	248.7	248.7
55°	239.9	233.4	229.3	225.4	223.5	222.2	220.6
57.5°	212.1	206.0	202.2	199.7	196.0	194.8	194.2
60°	192.3	187.4	183.6	180.4	178.7	176.2	176.2
62.5°	174.0	169.2	165.6	163.2	160.5	159.5	159.7
65°	147.6	143.7	140.2	137.6	137.0	135.1	135.7
67.5°	123.3	120.7	117.0	115.5	114.3	113.3	112.5
70°	107.1	104.5	102.5	100.7	99.7	99.7	99.7
72.5°	93.4	90.3	89.2	86.8	87.3	86.3	85.2
75°	72.3	70.4	69.5	68.4	66.9	66.9	66.9
77.5°	53.2	52.7	51.5	50.5	50.1	49.8	49.9
80°	41.2	40.8	40.2	40.2	39.5	39.3	38.6
82.5°	31.6	30.8	30.4	30.1	30.0	30.0	29.9
85°	18.0	17.4	17.4	17.7	17.0	17.0	17.4
87.5°	9.0	9.0	8.7	8.7	9.0	8.8	8.8
90°	10.2	10.1	10.1	10.2	10.2	10.2	10.3
92.5°	9.7	9.8	9.8	9.8	9.8	9.8	9.8
95°	19.5	19.5	19.4	19.3	19.1	19.0	18.9
97.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.6
100°	42.0	42.0	41.9	41.8	41.8	41.8	41.7
102.5°	52.1	52.2	52.2	52.1	52.0	52.0	51.9
105°	67.3	67.5	67.5	67.5	67.5	67.5	67.5
107.5°	83.6	83.6	83.5	83.2	82.9	82.6	82.2
110°	94.6	94.6	94.5	94.3	94.1	93.9	93.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	105.6	105.4	105.2	105.1	105.0	104.8	104.6
115°	122.7	122.6	122.5	122.3	122.1	121.9	121.7
117.5°	139.1	138.9	138.7	138.5	138.4	138.1	137.9
120°	150.2	150.2	150.2	150.0	149.7	149.6	149.4
122.5°	161.4	161.3	161.2	161.0	160.8	160.7	160.6
125°	178.2	178.1	177.9	177.9	177.8	177.7	177.6
127.5°	194.6	194.3	194.1	193.9	193.6	193.5	193.2
130°	205.9	205.7	205.5	205.3	204.9	204.7	204.4
132.5°	216.5	216.3	216.0	215.8	215.6	215.3	215.2
135°	232.8	232.7	232.6	232.4	232.2	232.0	231.8
137.5°	248.1	248.1	248.0	247.7	247.5	247.2	246.8
140°	258.6	258.6	258.4	258.1	257.9	257.6	257.4
142.5°	267.9	268.0	267.9	267.7	267.3	267.1	266.8
145°	282.1	282.2	282.1	281.9	281.6	281.4	281.0
147.5°	294.7	294.9	294.8	294.5	294.3	294.0	293.8
150°	302.6	302.9	302.9	302.6	302.5	302.3	302.0
152.5°	310.6	310.9	310.9	310.6	310.4	310.1	309.9
155°	320.7	321.1	321.2	320.9	320.7	320.6	320.3
157.5°	330.1	330.5	330.6	330.3	329.9	329.7	329.3
160°	335.5	336.0	336.0	335.7	335.4	335.2	334.9
162.5°	340.5	341.0	341.0	340.8	340.4	340.1	339.8
165°	347.0	347.4	347.5	347.2	346.8	346.5	346.2
167.5°	352.2	352.8	352.8	352.5	352.1	351.7	351.4
170°	355.2	355.7	355.7	355.3	354.9	354.5	354.0
172.5°	357.4	357.8	357.9	357.5	357.1	356.7	356.3
175°	359.7	360.2	360.2	359.9	359.5	359.0	358.6
177.5°	360.7	361.0	361.0	360.7	360.4	360.1	359.7
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5

(END OF REPORT)