

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: P331323-927

Luminaire Tested: **SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331323-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

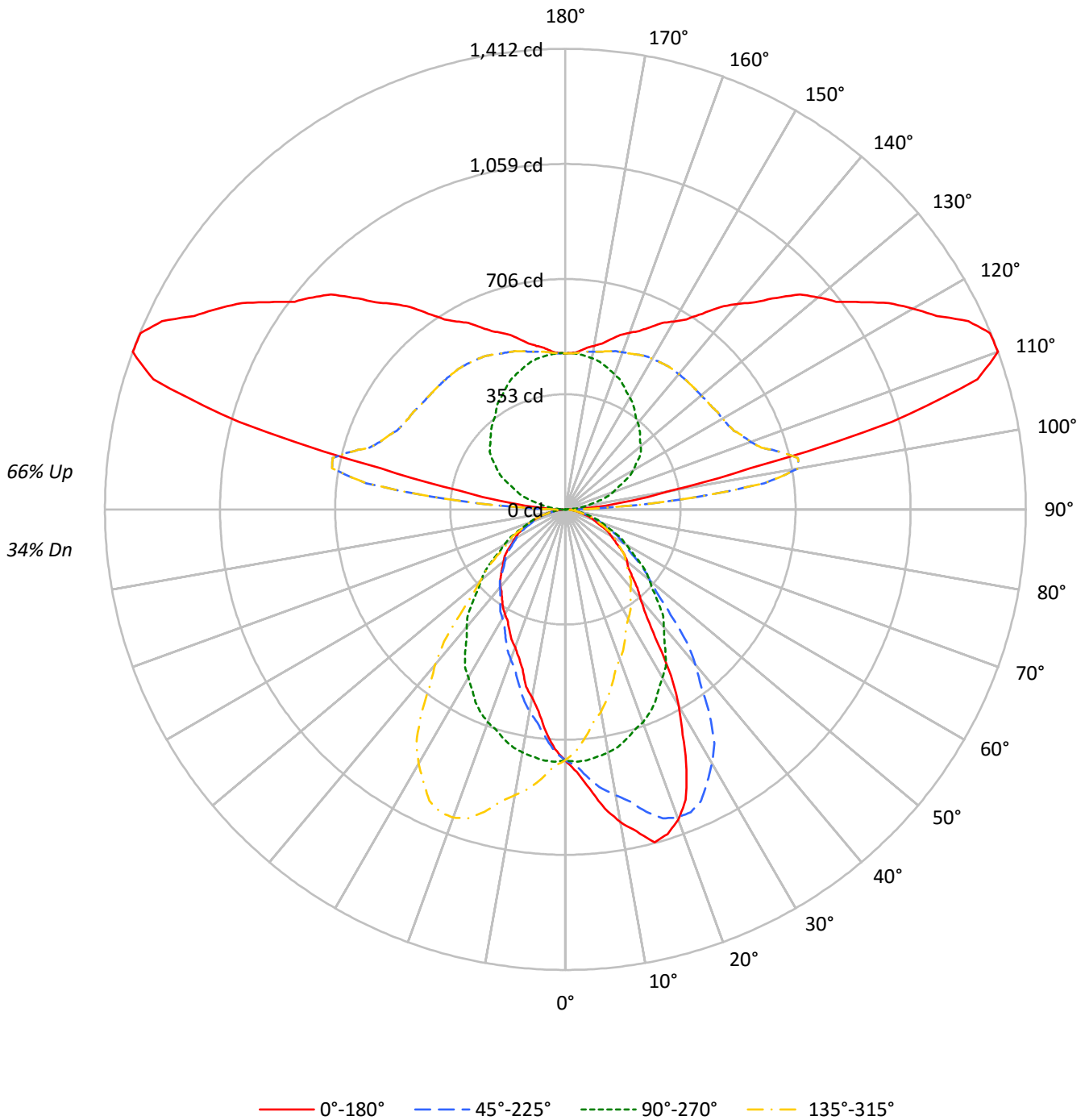
Lumens per Lamp: N/A
Luminaire Lumens: 5032.6 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	35	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	32	30	25				
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	26	24	23	19				
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18	15				
7	57	45	37	32	51	41	34	30	33	29	25	27	23	20	20	18	16	13				
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	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	4.2
20°-30°	309.3	6.1
30°-40°	326.4	6.5
40°-50°	289.0	5.7
50°-60°	230.6	4.6
60°-70°	156.8	3.1
70°-80°	80.4	1.6
80°-90°	23.7	0.5
90°-100°	191.3	3.8
100°-110°	649.3	12.9
110°-120°	689.8	13.7
120°-130°	567.8	11.3
130°-140°	456.0	9.1
140°-150°	344.6	6.8
150°-160°	242.2	4.8
160°-170°	142.6	2.8
170°-180°	46.4	0.9
0°-30°	595.8	11.8
0°-40°	922.2	18.3
0°-60°	1441.8	28.6
0°-90°	1702.6	33.8
90°-120°	1530.4	30.4
90°-150°	2898.8	57.6
90°-180°	3330.0	66.2
0°-180°	5032.6	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°	30	1	30	1	30	17
95°	105	32	105	32	105	136
105°	1037	112	1037	112	1037	1003
115°	1365	198	1365	198	1365	1336
125°	1107	276	1107	276	1107	1000
135°	918	324	918	324	918	713
145°	732	370	732	370	732	465
155°	616	421	616	421	616	287
165°	540	458	540	458	540	154
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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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°	12.2	12.2	12.4	12.2	12.2	12.3	11.9	12.0	12.4	12.9	12.9
90°	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5	30.3	31.3	30.3
92.5°	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2	101.1	119.6	118.0
95°	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1	315.7	360.8	319.3
97.5°	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6	646.0	615.8	463.8
100°	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2	859.5	727.0	500.6
102.5°	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1	939.1	730.7	486.6
105°	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1	926.7	681.9	459.2
107.5°	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9	845.9	629.6	445.6
110°	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3	795.1	604.6	442.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8	759.8	588.4	443.4
115°	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8	716.0	570.5	447.3
117.5°	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4	688.3	561.9	453.8
120°	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3	673.6	556.7	458.3
122.5°	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5	661.1	553.8	463.4
125°	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5	643.3	548.5	471.2
127.5°	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0	626.7	545.3	479.1
130°	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6	615.7	543.8	485.0
132.5°	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0	606.8	543.1	490.8
135°	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3	594.5	542.0	497.9
137.5°	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6	585.8	541.9	504.1
140°	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1	580.7	541.1	507.1
142.5°	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8	575.5	541.1	509.3
145°	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2	568.7	539.2	511.7
147.5°	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1	561.7	536.0	512.4
150°	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9	555.8	533.8	511.7
152.5°	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8	550.6	530.0	510.2
155°	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6	541.1	523.6	507.9
157.5°	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5	532.1	517.0	503.7
160°	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4	525.5	512.6	501.5
162.5°	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3	519.6	508.9	499.3
165°	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2	509.8	501.5	495.1
167.5°	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6	500.3	495.1	490.8
170°	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7	495.1	491.4	488.6
172.5°	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1	490.0	487.0	485.7
175°	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9	483.2	482.2	481.3
177.5°	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8	479.3	478.6	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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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°	12.0	10.8	9.8	9.7	8.7	8.3	6.7	5.4	5.7	6.2	6.1
90°	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0	3.6	7.4	9.2
92.5°	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2	16.2	22.8	26.9
95°	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2	35.9	45.1	53.4
97.5°	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4	57.4	67.2	79.7
100°	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8	73.6	81.9	96.6
102.5°	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8	89.8	98.1	112.8
105°	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3	116.0	122.4	136.2
107.5°	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8	141.7	148.0	160.7
110°	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5	160.1	165.6	177.6



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6	176.3	182.6	193.8
115°	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9	202.5	207.9	219.0
117.5°	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0	227.7	233.2	243.0
120°	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2	243.8	249.4	257.7
122.5°	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6	258.6	264.1	273.1
125°	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1	278.8	284.4	295.4
127.5°	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2	296.0	303.7	315.8
130°	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8	305.5	314.7	327.6
132.5°	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7	315.1	325.0	338.7
135°	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9	327.6	338.7	352.4
137.5°	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4	340.9	351.9	366.6
140°	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0	349.7	360.8	375.5
142.5°	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6	358.5	368.8	383.6
145°	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9	373.6	382.9	396.6
147.5°	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4	388.2	397.0	409.7
150°	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7	398.5	405.8	417.8
152.5°	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0	407.3	414.6	425.2
155°	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6	421.4	427.0	437.1
157.5°	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7	433.6	438.1	446.9
160°	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8	441.7	445.4	452.7
162.5°	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9	448.4	452.0	457.9
165°	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3	457.4	459.2	464.7
167.5°	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0	464.9	466.6	470.1
170°	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2	469.4	470.2	473.0
172.5°	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1	473.0	472.5	475.2
175°	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6	476.7	475.8	477.6
177.5°	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3	477.8	477.1	478.6
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

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°	6.3	6.6	7.2	8.6	9.3	9.3	9.0	8.7	8.4	8.2	8.5
90°	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5	27.6	29.5	30.3
92.5°	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2	68.8	61.1	55.4
95°	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1	185.0	146.3	126.0
97.5°	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6	460.3	360.8	294.3
100°	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2	726.1	600.0	488.6
102.5°	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1	996.2	904.0	786.1
105°	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1	1222.1	1234.1	1203.7
107.5°	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9	1205.5	1301.2	1345.8
110°	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3	1154.0	1271.8	1347.3



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8	1092.9	1218.8	1305.3
115°	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8	1009.6	1130.0	1224.9
117.5°	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4	941.8	1051.1	1140.0
120°	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3	906.4	1004.0	1087.7
122.5°	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5	877.0	969.4	1045.0
125°	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5	838.4	919.3	988.3
127.5°	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0	800.8	877.2	940.9
130°	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6	775.8	848.5	909.2
132.5°	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0	752.3	819.0	876.1
135°	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3	715.0	775.8	827.3
137.5°	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6	685.4	733.6	778.6
140°	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1	666.3	708.6	749.1
142.5°	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8	649.4	685.8	719.6
145°	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2	627.6	656.2	682.9
147.5°	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1	610.0	632.2	651.7
150°	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9	598.2	617.5	634.1
152.5°	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8	588.6	605.0	619.3
155°	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6	573.3	587.1	597.2
157.5°	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5	557.9	569.4	577.3
160°	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4	547.6	557.7	564.1
162.5°	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3	538.0	546.6	551.6
165°	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2	523.6	530.0	533.8
167.5°	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6	510.6	515.0	518.3
170°	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7	502.5	506.1	507.9
172.5°	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1	495.1	498.0	499.2
175°	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9	486.8	487.7	488.6
177.5°	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8	480.8	481.5	481.5
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

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°	8.5	8.2	8.2	8.0	8.2	8.2	8.5	8.5	8.2	8.4	8.7
90°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5
92.5°	54.7	51.7	52.4	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2
95°	114.1	106.8	104.0	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1
97.5°	250.3	227.7	214.2	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6
100°	412.3	372.7	346.0	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2
102.5°	703.1	635.6	602.2	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1
105°	1146.6	1089.6	1050.0	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1
107.5°	1353.0	1349.8	1341.9	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9
110°	1386.8	1404.3	1412.6	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1360.3	1389.6	1405.3	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8
115°	1290.2	1332.5	1356.5	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8
117.5°	1206.7	1251.3	1276.6	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4
120°	1152.1	1195.4	1222.1	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3
122.5°	1102.8	1145.3	1169.1	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5
125°	1041.7	1076.7	1099.7	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5
127.5°	987.5	1020.2	1040.1	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0
130°	954.3	985.6	1004.0	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6
132.5°	920.4	951.7	968.7	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0
135°	866.9	897.2	913.8	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3
137.5°	814.6	840.7	855.3	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6
140°	778.6	802.5	816.3	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1
142.5°	747.6	769.4	781.6	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8
145°	704.9	720.6	729.8	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2
147.5°	669.9	682.5	688.7	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1
150°	647.8	658.9	664.4	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9
152.5°	630.2	639.8	643.8	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8
155°	607.4	613.8	617.5	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6
157.5°	584.6	589.9	591.5	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5
160°	570.5	575.1	576.1	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4
162.5°	558.0	561.2	562.1	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3
165°	537.4	541.1	541.1	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2
167.5°	519.9	522.0	521.8	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6
170°	508.9	511.7	510.7	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7
172.5°	500.1	501.4	500.4	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1
175°	488.6	489.6	488.6	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9
177.5°	481.5	481.5	480.8	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

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°	9.0	9.3	9.3	8.6	7.2	6.6	6.3	6.1	6.2	5.7	5.4
90°	30.3	31.3	30.3	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0
92.5°	101.1	119.6	118.0	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2
95°	315.7	360.8	319.3	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2
97.5°	646.0	615.8	463.8	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4
100°	859.5	727.0	500.6	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8
102.5°	939.1	730.7	486.6	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8
105°	926.7	681.9	459.2	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3
107.5°	845.9	629.6	445.6	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8
110°	795.1	604.6	442.7	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	759.8	588.4	443.4	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6
115°	716.0	570.5	447.3	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9
117.5°	688.3	561.9	453.8	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0
120°	673.6	556.7	458.3	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2
122.5°	661.1	553.8	463.4	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6
125°	643.3	548.5	471.2	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1
127.5°	626.7	545.3	479.1	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2
130°	615.7	543.8	485.0	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8
132.5°	606.8	543.1	490.8	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7
135°	594.5	542.0	497.9	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9
137.5°	585.8	541.9	504.1	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4
140°	580.7	541.1	507.1	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0
142.5°	575.5	541.1	509.3	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6
145°	568.7	539.2	511.7	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9
147.5°	561.7	536.0	512.4	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4
150°	555.8	533.8	511.7	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7
152.5°	550.6	530.0	510.2	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0
155°	541.1	523.6	507.9	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6
157.5°	532.1	517.0	503.7	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7
160°	525.5	512.6	501.5	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8
162.5°	519.6	508.9	499.3	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9
165°	509.8	501.5	495.1	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3
167.5°	500.3	495.1	490.8	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0
170°	495.1	491.4	488.6	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2
172.5°	490.0	487.0	485.7	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1
175°	483.2	482.2	481.3	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6
177.5°	479.3	478.6	479.3	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

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°	6.7	8.3	8.7	9.7	9.8	10.8	12.0	12.9	12.9	12.4	12.0
90°	3.6	7.4	9.2	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5
92.5°	16.2	22.8	26.9	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2
95°	35.9	45.1	53.4	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1
97.5°	57.4	67.2	79.7	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6
100°	73.6	81.9	96.6	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2
102.5°	89.8	98.1	112.8	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1
105°	116.0	122.4	136.2	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1
107.5°	141.7	148.0	160.7	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9
110°	160.1	165.6	177.6	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3



TEST NUMBER: P331323-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	176.3	182.6	193.8	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8
115°	202.5	207.9	219.0	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8
117.5°	227.7	233.2	243.0	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4
120°	243.8	249.4	257.7	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3
122.5°	258.6	264.1	273.1	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5
125°	278.8	284.4	295.4	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5
127.5°	296.0	303.7	315.8	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0
130°	305.5	314.7	327.6	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6
132.5°	315.1	325.0	338.7	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0
135°	327.6	338.7	352.4	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3
137.5°	340.9	351.9	366.6	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6
140°	349.7	360.8	375.5	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1
142.5°	358.5	368.8	383.6	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8
145°	373.6	382.9	396.6	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2
147.5°	388.2	397.0	409.7	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1
150°	398.5	405.8	417.8	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9
152.5°	407.3	414.6	425.2	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8
155°	421.4	427.0	437.1	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6
157.5°	433.6	438.1	446.9	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5
160°	441.7	445.4	452.7	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4
162.5°	448.4	452.0	457.9	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3
165°	457.4	459.2	464.7	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2
167.5°	464.9	466.6	470.1	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6
170°	469.4	470.2	473.0	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7
172.5°	473.0	472.5	475.2	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1
175°	476.7	475.8	477.6	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9
177.5°	477.8	477.1	478.6	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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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°	11.9	12.3	12.2	12.2	12.4	12.2	12.2
90°	27.6	29.5	30.3	30.3	30.3	30.3	30.3
92.5°	68.8	61.1	55.4	54.7	51.7	52.4	51.0
95°	185.0	146.3	126.0	114.1	106.8	104.0	104.9
97.5°	460.3	360.8	294.3	250.3	227.7	214.2	206.5
100°	726.1	600.0	488.6	412.3	372.7	346.0	329.5
102.5°	996.2	904.0	786.1	703.1	635.6	602.2	579.8
105°	1222.1	1234.1	1203.7	1146.6	1089.6	1050.0	1037.1
107.5°	1205.5	1301.2	1345.8	1353.0	1349.8	1341.9	1324.8
110°	1154.0	1271.8	1347.3	1386.8	1404.3	1412.6	1411.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1092.9	1218.8	1305.3	1360.3	1389.6	1405.3	1410.2
115°	1009.6	1130.0	1224.9	1290.2	1332.5	1356.5	1364.8
117.5°	941.8	1051.1	1140.0	1206.7	1251.3	1276.6	1283.6
120°	906.4	1004.0	1087.7	1152.1	1195.4	1222.1	1231.3
122.5°	877.0	969.4	1045.0	1102.8	1145.3	1169.1	1176.8
125°	838.4	919.3	988.3	1041.7	1076.7	1099.7	1107.1
127.5°	800.8	877.2	940.9	987.5	1020.2	1040.1	1046.0
130°	775.8	848.5	909.2	954.3	985.6	1004.0	1011.4
132.5°	752.3	819.0	876.1	920.4	951.7	968.7	975.3
135°	715.0	775.8	827.3	866.9	897.2	913.8	917.5
137.5°	685.4	733.6	778.6	814.6	840.7	855.3	860.8
140°	666.3	708.6	749.1	778.6	802.5	816.3	821.8
142.5°	649.4	685.8	719.6	747.6	769.4	781.6	782.8
145°	627.6	656.2	682.9	704.9	720.6	729.8	732.5
147.5°	610.0	632.2	651.7	669.9	682.5	688.7	690.4
150°	598.2	617.5	634.1	647.8	658.9	664.4	665.4
152.5°	588.6	605.0	619.3	630.2	639.8	643.8	644.0
155°	573.3	587.1	597.2	607.4	613.8	617.5	615.7
157.5°	557.9	569.4	577.3	584.6	589.9	591.5	591.5
160°	547.6	557.7	564.1	570.5	575.1	576.1	576.1
162.5°	538.0	546.6	551.6	558.0	561.2	562.1	561.3
165°	523.6	530.0	533.8	537.4	541.1	541.1	540.2
167.5°	510.6	515.0	518.3	519.9	522.0	521.8	520.7
170°	502.5	506.1	507.9	508.9	511.7	510.7	508.9
172.5°	495.1	498.0	499.2	500.1	501.4	500.4	499.3
175°	486.8	487.7	488.6	488.6	489.6	488.6	486.8
177.5°	480.8	481.5	481.5	481.5	481.5	480.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)