

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: P331665-940

Luminaire Tested: **SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331665-940  
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: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

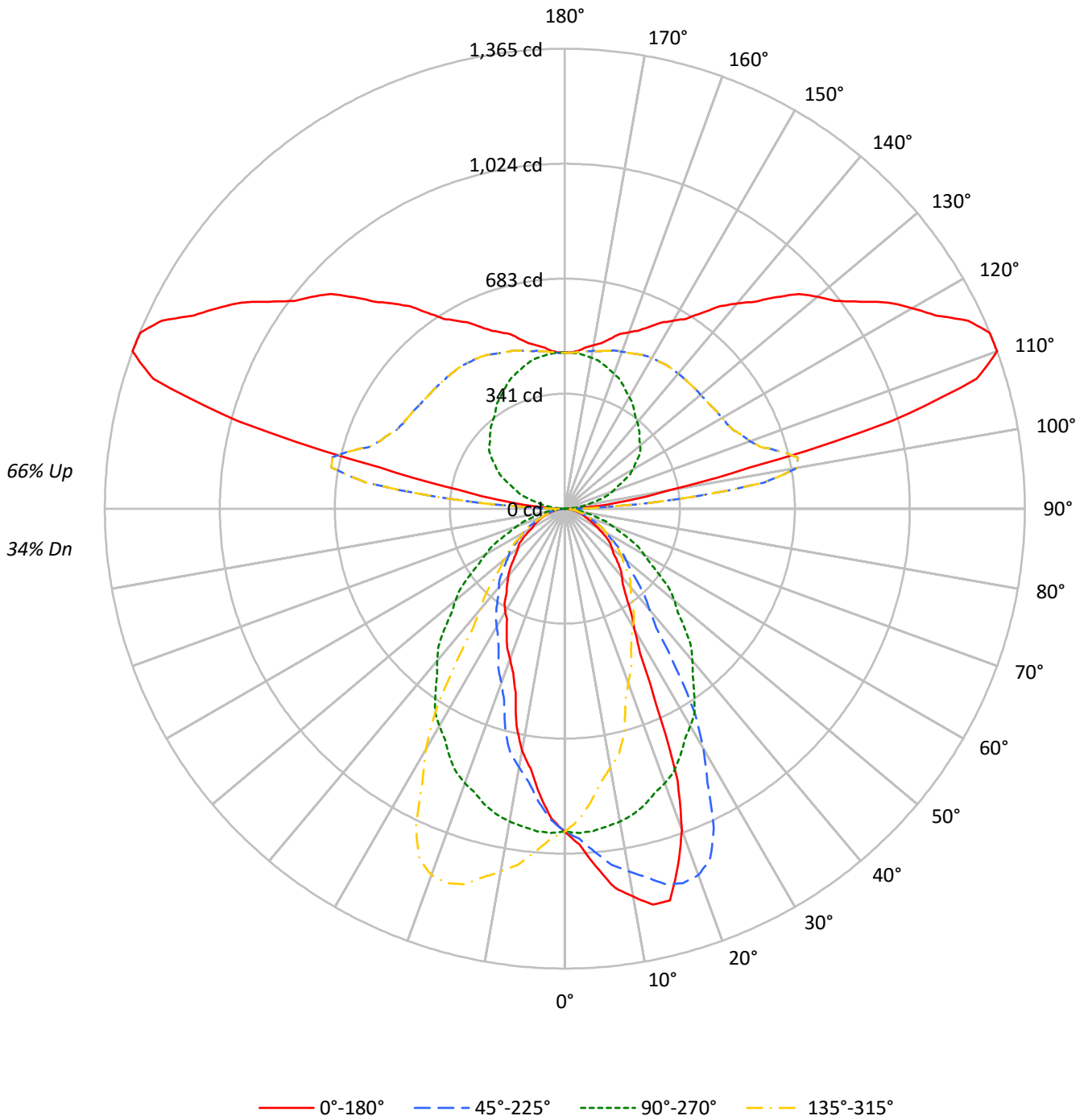
Lumens per Lamp: N/A  
Luminaire Lumens: 4880.7 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 44.5  
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	37	37	36	30
2	87	80	74	69	78	72	68	63	58	55	52	45	43	41	34	32	31	26
3	79	71	64	58	72	64	58	54	52	48	45	41	38	36	30	29	27	22
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	33	33	30	27	25	23	21	18
6	62	51	43	38	56	46	40	35	38	33	29	30	27	24	23	21	19	16
7	57	46	38	33	52	42	35	31	35	30	26	28	24	22	21	19	17	14
8	53	42	34	29	48	38	32	27	32	27	23	25	22	19	20	17	16	13
9	50	38	31	26	45	35	29	24	29	24	21	23	20	18	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11

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

	0°	90°	180°	270°
0°	15474	15474	15474	15474
5°	17280	15571	13807	15571
10°	19174	15462	11968	15462
15°	20117	15234	9429	15234
20°	17438	14899	8158	14899
25°	11437	14439	7285	14439
30°	7700	13882	6594	13882
35°	6236	13180	5947	13180
40°	5545	12416	5503	12416
45°	5019	11520	4912	11520
50°	4567	10630	4549	10630
55°	4293	9647	4236	9647
60°	3591	8741	3549	8741
65°	3030	7939	3435	7939
70°	2799	7091	3238	7091
75°	2620	6170	2994	6170
80°	2408	5077	2659	5077
85°	2205	4020	2353	4020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	1.9
10°-20°	253.1	5.2
20°-30°	326.2	6.7
30°-40°	310.0	6.4
40°-50°	265.6	5.4
50°-60°	202.2	4.1
60°-70°	127.8	2.6
70°-80°	63.8	1.3
80°-90°	20.8	0.4
90°-100°	185.0	3.8
100°-110°	627.9	12.9
110°-120°	667.1	13.7
120°-130°	549.1	11.3
130°-140°	441.0	9.0
140°-150°	333.2	6.8
150°-160°	234.2	4.8
160°-170°	137.9	2.8
170°-180°	44.9	0.9
0°-30°	670.2	13.7
0°-40°	980.2	20.1
0°-60°	1448.0	29.7
0°-90°	1660.4	34.0
90°-120°	1480.0	30.3
90°-150°	2803.4	57.4
90°-180°	3220.0	66.0
0°-180°	4880.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	958	958	958	958	958	
5°	1066	961	852	961	1066	105
15°	1204	911	564	911	1204	325
25°	642	810	409	810	642	305
35°	316	669	302	669	316	202
45°	220	504	215	504	220	170
55°	152	343	150	343	152	134
65°	79	208	90	208	79	81
75°	42	99	48	99	42	45
85°	12	22	13	22	12	14
90°	29	1	29	1	29	16
95°	102	31	102	31	102	132
105°	1003	109	1003	109	1003	970
115°	1320	191	1320	191	1320	1292
125°	1071	267	1071	267	1071	967
135°	887	313	887	313	887	689
145°	708	358	708	358	708	450
155°	595	407	595	407	595	278
165°	522	443	522	443	522	149
175°	471	462	471	462	471	46
180°	463	463	463	463	463	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	997.3	998.1	998.9	997.0	997.0	995.4	991.9	989.3	981.8	980.7	980.7
5°	1066.2	1065.6	1066.9	1062.6	1056.6	1055.3	1048.9	1040.6	1032.0	1022.3	1020.3
7.5°	1134.9	1133.9	1131.2	1130.4	1125.9	1115.8	1105.6	1094.8	1080.4	1066.3	1059.3
10°	1169.5	1180.4	1173.8	1162.2	1164.5	1148.9	1140.5	1126.2	1114.2	1093.2	1088.6
12.5°	1203.5	1207.9	1205.8	1199.2	1196.2	1185.4	1174.1	1161.6	1139.5	1120.7	1104.3
15°	1203.5	1209.8	1211.5	1209.4	1211.1	1210.4	1204.4	1194.1	1174.8	1154.1	1136.2
17.5°	1114.6	1119.0	1129.9	1137.3	1146.7	1166.4	1176.1	1179.9	1177.0	1165.2	1152.5
20°	1014.9	1007.6	1038.3	1053.9	1067.3	1100.5	1129.2	1140.1	1157.8	1157.5	1154.1
22.5°	873.8	875.5	904.6	923.1	962.1	995.3	1028.0	1069.3	1103.5	1126.1	1139.2
25°	642.0	654.7	683.7	708.9	752.2	814.2	870.5	935.8	997.3	1046.0	1092.3
27.5°	482.1	483.1	506.0	529.5	555.2	605.9	676.8	754.7	842.6	915.0	998.4
30°	413.0	410.9	420.6	434.9	456.9	496.1	549.5	626.1	713.6	822.9	920.1
32.5°	363.9	364.0	371.3	381.9	400.1	426.6	463.2	525.3	608.1	715.5	829.5
35°	316.4	316.0	321.4	329.0	336.6	353.7	378.6	411.3	468.2	568.5	685.0
37.5°	282.2	283.7	286.3	291.1	299.5	309.0	324.0	345.9	386.5	445.8	543.7
40°	263.1	263.8	267.4	271.4	276.4	283.7	296.0	313.7	343.3	390.6	462.2
42.5°	245.5	246.1	248.8	252.4	256.4	263.8	273.9	289.2	313.3	350.1	409.2
45°	219.8	219.8	222.1	223.7	228.1	234.8	243.1	255.7	272.4	299.7	339.0
47.5°	195.6	195.7	197.2	200.1	202.9	208.0	216.2	226.6	238.7	259.8	293.4
50°	181.8	182.2	183.2	185.5	187.2	191.8	198.1	207.1	219.8	236.1	264.0
52.5°	170.6	170.4	171.7	172.7	173.8	177.2	181.9	189.8	201.2	215.3	238.5
55°	152.5	151.1	153.2	154.8	155.9	157.2	159.8	164.9	174.5	186.5	203.8
57.5°	129.8	129.3	130.7	132.2	135.4	139.0	141.2	144.5	149.5	158.0	175.2
60°	111.2	111.2	114.2	115.2	118.9	123.5	128.2	130.9	135.9	141.5	154.2
62.5°	94.7	95.0	96.4	97.4	99.4	105.1	111.7	117.5	122.3	127.7	136.1
65°	79.3	79.9	79.9	80.6	81.9	83.3	85.9	90.6	98.9	106.6	112.9
67.5°	67.2	67.5	67.7	68.3	68.7	70.1	71.2	73.3	75.2	82.5	90.3
70°	59.3	60.3	59.9	60.6	60.9	61.6	63.0	63.9	67.0	68.6	73.3
72.5°	51.8	52.5	52.5	52.9	53.8	53.9	54.9	55.9	57.9	59.3	61.8
75°	42.0	41.6	42.0	42.6	43.0	43.2	43.2	44.6	45.7	47.0	48.6
77.5°	32.4	32.7	32.6	32.7	32.7	33.3	33.3	33.9	34.9	35.6	36.4
80°	25.9	26.3	25.9	26.3	26.7	26.9	26.7	26.9	28.0	28.6	28.6
82.5°	20.2	20.2	20.4	20.4	20.5	20.6	21.0	21.1	21.8	21.7	21.9
85°	11.9	11.7	11.7	11.7	11.9	12.3	11.9	11.9	12.3	12.3	12.3
87.5°	10.2	10.4	10.4	10.4	10.4	10.3	9.9	10.5	10.4	10.9	10.4
90°	29.3	29.3	29.3	29.3	29.3	28.4	26.7	28.4	29.3	30.2	29.3
92.5°	49.3	50.7	50.0	52.9	53.6	59.1	66.6	77.6	97.7	115.7	114.0
95°	101.5	100.6	103.3	110.4	121.9	141.5	178.9	233.2	305.2	348.8	308.8
97.5°	199.7	207.1	220.2	242.1	284.6	348.8	445.1	544.1	624.7	595.6	448.5
100°	318.6	334.7	360.4	398.7	472.6	580.2	702.1	812.5	831.3	703.0	484.1
102.5°	560.7	582.4	614.6	679.9	760.2	874.3	963.5	988.4	908.1	706.6	470.6
105°	1003.0	1015.4	1053.7	1108.8	1164.0	1193.5	1181.9	1081.3	896.2	659.4	444.1
107.5°	1281.2	1297.7	1305.4	1308.4	1301.5	1258.4	1165.8	1014.4	818.1	608.9	430.9
110°	1365.2	1366.1	1358.1	1341.1	1302.9	1229.9	1116.0	956.7	768.9	584.7	428.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1363.8	1359.0	1343.8	1315.5	1262.3	1178.7	1056.9	904.0	734.8	569.0	428.7
115°	1319.8	1311.8	1288.6	1247.7	1184.5	1092.9	976.2	839.2	692.4	551.8	432.5
117.5°	1241.3	1234.6	1210.1	1166.9	1102.5	1016.5	910.8	790.4	665.7	543.4	438.9
120°	1190.8	1181.9	1156.0	1114.2	1052.0	970.9	876.6	766.2	651.5	538.4	443.2
122.5°	1138.1	1130.6	1107.6	1066.5	1010.7	937.5	848.1	747.0	639.4	535.6	448.2
125°	1070.6	1063.5	1041.3	1007.5	955.8	889.0	810.7	719.1	622.1	530.4	455.7
127.5°	1011.6	1005.8	986.6	954.9	909.9	848.3	774.5	691.5	606.1	527.4	463.3
130°	978.0	970.9	953.1	922.9	879.3	820.6	750.2	673.7	595.4	525.9	469.0
132.5°	943.2	936.7	920.4	890.1	847.2	792.0	727.5	656.6	586.8	525.2	474.7
135°	887.3	883.7	867.7	838.3	800.0	750.2	691.5	632.8	574.9	524.1	481.4
137.5°	832.5	827.2	813.1	787.8	752.9	709.4	662.8	613.7	566.5	524.0	487.5
140°	794.7	789.4	776.1	752.9	724.4	685.3	644.4	601.6	561.6	523.3	490.4
142.5°	757.0	755.9	744.0	723.0	696.0	663.2	627.9	591.7	556.6	523.3	492.5
145°	708.4	705.7	696.9	681.7	660.3	634.5	607.0	577.6	550.0	521.5	494.8
147.5°	667.6	666.0	660.0	647.9	630.3	611.4	589.9	566.7	543.2	518.4	495.5
150°	643.5	642.6	637.2	626.5	613.1	597.2	578.5	558.9	537.5	516.2	494.8
152.5°	622.8	622.6	618.7	609.4	599.0	585.1	569.2	551.1	532.5	512.6	493.4
155°	595.4	597.2	593.6	587.4	577.6	567.8	554.5	540.2	523.3	506.4	491.2
157.5°	572.0	572.0	570.4	565.3	558.4	550.7	539.5	527.5	514.6	500.0	487.1
160°	557.1	557.1	556.2	551.8	545.5	539.3	529.5	519.7	508.2	495.7	485.0
162.5°	542.9	543.6	542.7	539.7	533.4	528.6	520.2	511.9	502.5	492.1	482.9
165°	522.4	523.3	523.3	519.7	516.2	512.6	506.4	500.2	493.0	485.0	478.8
167.5°	503.5	504.6	504.8	502.8	501.2	498.0	493.7	488.9	483.8	478.8	474.7
170°	492.1	493.9	494.8	492.1	491.2	489.5	485.9	483.2	478.8	475.2	472.6
172.5°	482.9	483.9	484.8	483.6	482.7	481.6	478.8	476.8	473.9	471.0	469.8
175°	470.8	472.6	473.5	472.6	472.6	471.7	470.8	469.9	467.3	466.4	465.5
177.5°	463.5	464.9	465.7	465.7	465.7	465.7	464.9	464.9	463.5	462.8	463.5
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	981.2	979.2	977.3	972.5	970.1	964.7	963.9	963.7	956.8	950.1	948.2
5°	1014.9	1009.7	1001.7	992.3	982.7	972.7	966.0	960.7	947.4	934.7	927.4
7.5°	1048.9	1037.5	1023.7	1006.0	991.3	974.8	962.6	951.5	932.6	914.5	902.3
10°	1074.2	1055.6	1037.3	1013.0	994.0	975.4	958.1	943.1	921.8	897.8	880.7
12.5°	1089.9	1069.4	1044.2	1020.5	995.9	972.1	949.0	929.7	904.7	879.9	859.7
15°	1111.3	1089.2	1058.6	1024.7	993.0	962.1	935.4	911.4	878.8	849.2	824.5
17.5°	1128.6	1098.3	1065.4	1026.2	989.5	950.2	915.9	885.2	848.9	813.2	784.2
20°	1134.2	1104.2	1066.2	1027.0	983.6	937.4	900.4	867.1	828.1	789.2	755.9
22.5°	1130.7	1107.4	1065.1	1018.2	973.8	925.4	883.7	845.0	801.8	762.1	723.4
25°	1107.2	1099.2	1059.3	1008.0	957.3	901.1	852.8	810.5	761.3	718.6	676.6
27.5°	1052.4	1069.7	1044.9	990.2	934.0	873.6	819.4	771.2	720.1	672.1	630.3
30°	999.7	1039.3	1028.6	978.0	915.1	855.8	794.9	744.6	690.0	640.7	599.4
32.5°	927.5	992.9	1003.4	961.0	895.9	830.7	766.9	716.8	659.9	607.9	567.7
35°	812.5	910.4	955.4	928.4	863.1	792.9	726.9	668.7	611.4	560.1	520.1
37.5°	675.4	808.7	883.7	885.6	825.6	752.6	680.8	622.9	564.3	514.0	470.7
40°	586.4	730.9	828.5	850.2	799.5	720.6	648.0	589.1	531.8	482.5	432.9
42.5°	506.5	650.5	770.4	808.1	767.9	689.5	616.6	555.0	499.3	452.6	402.0
45°	409.6	535.5	667.6	734.9	712.7	640.0	563.1	504.5	452.2	411.9	363.3
47.5°	345.5	434.3	562.1	653.2	652.7	586.5	510.9	454.7	406.2	368.5	329.0
50°	309.0	386.3	494.5	597.7	606.4	550.8	478.8	423.2	378.0	338.3	306.7
52.5°	276.3	339.9	437.2	536.2	560.8	512.6	442.9	391.6	347.6	311.1	284.0
55°	233.4	282.7	356.7	449.2	486.5	452.5	390.6	342.7	307.0	276.4	253.1
57.5°	197.4	234.4	293.7	368.3	411.7	390.3	339.3	300.3	269.8	242.1	223.7
60°	174.9	205.1	255.4	317.7	365.6	350.6	307.0	270.7	244.8	220.8	203.5
62.5°	153.6	179.6	222.7	273.2	317.2	310.9	275.4	244.9	222.1	200.3	185.7
65°	123.5	142.5	176.1	215.8	251.1	254.0	228.5	207.8	187.4	170.1	157.2
67.5°	98.4	110.8	134.5	167.8	194.3	203.8	188.1	172.3	156.1	142.8	131.5
70°	82.9	92.9	110.2	137.2	161.5	171.5	162.5	150.2	136.2	125.2	115.6
72.5°	67.2	77.0	89.7	109.5	130.4	141.2	138.0	129.1	117.8	108.7	99.6
75°	50.6	53.6	62.2	75.6	91.9	101.2	103.5	98.9	89.9	82.9	77.6
77.5°	37.5	39.2	43.3	50.4	61.0	69.3	72.8	72.2	66.0	62.0	57.0
80°	30.0	30.9	33.0	35.9	44.0	52.3	54.6	54.6	50.3	48.6	43.6
82.5°	22.7	23.5	24.7	26.4	30.1	37.4	39.9	40.5	37.7	35.6	31.7
85°	13.0	12.7	13.3	14.4	15.0	16.9	21.0	21.7	21.0	18.3	17.3
87.5°	9.4	8.4	7.5	6.7	6.6	6.5	7.1	7.9	7.4	7.3	7.1
90°	24.0	17.8	13.4	10.7	8.9	7.1	3.6	0.9	3.6	7.1	8.9
92.5°	88.8	60.5	40.4	32.0	25.9	22.1	15.7	10.9	15.7	22.1	25.9
95°	205.5	128.1	87.2	65.9	51.6	43.6	34.7	31.1	34.7	43.6	51.6
97.5°	277.0	169.1	117.6	93.5	77.0	65.0	55.6	50.7	55.6	65.0	77.0
100°	291.9	183.3	136.2	111.3	93.5	79.2	71.2	68.5	71.2	79.2	93.5
102.5°	292.7	196.2	152.6	127.6	109.1	94.9	86.9	84.9	86.9	94.9	109.1
105°	297.2	218.0	176.2	151.3	131.7	118.3	112.2	108.6	112.2	118.3	131.7
107.5°	309.5	240.5	199.9	174.8	155.4	143.1	137.1	134.2	137.1	143.1	155.4
110°	319.5	255.4	216.2	190.5	171.7	160.2	154.9	151.3	154.9	160.2	171.7





TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	330.2	269.7	231.9	205.4	187.4	176.6	170.5	166.9	170.5	176.6	187.4
115°	346.2	291.9	253.6	229.6	211.8	201.2	195.8	191.4	195.8	201.2	211.8
117.5°	363.3	312.4	277.0	252.0	235.0	225.5	220.2	216.6	220.2	225.5	235.0
120°	374.7	326.6	291.9	267.0	249.1	241.2	235.9	232.3	235.9	241.2	249.1
122.5°	384.6	340.1	307.6	282.0	264.1	255.4	250.0	247.3	250.0	255.4	264.1
125°	400.5	360.4	328.4	303.4	285.7	275.0	269.7	267.0	269.7	275.0	285.7
127.5°	415.3	379.3	348.1	322.5	305.4	293.6	286.2	282.7	286.2	293.6	305.4
130°	424.5	390.7	359.5	334.7	316.8	304.3	295.4	291.9	295.4	304.3	316.8
132.5°	433.7	400.6	371.0	346.0	327.5	314.3	304.7	300.4	304.7	314.3	327.5
135°	445.9	414.7	386.2	361.3	340.8	327.5	316.8	313.3	316.8	327.5	340.8
137.5°	455.1	426.1	398.0	374.9	354.5	340.3	329.7	325.4	329.7	340.3	354.5
140°	460.1	432.5	405.8	382.7	363.1	348.8	338.2	334.7	338.2	348.8	363.1
142.5°	464.4	437.5	411.5	389.8	371.0	356.7	346.7	343.8	346.7	356.7	371.0
145°	469.9	445.0	421.0	401.4	383.6	370.2	361.3	357.8	361.3	370.2	383.6
147.5°	473.0	451.0	428.5	411.0	396.2	383.9	375.4	372.7	375.4	383.9	396.2
150°	474.3	453.9	433.4	417.4	404.0	392.4	385.3	382.7	385.3	392.4	404.0
152.5°	475.0	456.7	438.4	423.8	411.2	401.0	393.9	392.6	393.9	401.0	411.2
155°	476.1	461.0	445.9	432.5	422.8	413.0	407.6	406.7	407.6	413.0	422.8
157.5°	476.1	464.0	451.2	440.0	432.1	423.7	419.4	418.5	419.4	423.7	432.1
160°	476.1	465.5	454.8	445.0	437.8	430.7	427.2	426.3	427.2	430.7	437.8
162.5°	475.4	466.2	456.9	449.2	442.8	437.1	433.5	434.1	433.5	437.1	442.8
165°	473.5	467.3	459.2	453.9	449.4	444.1	442.3	443.2	442.3	444.1	449.4
167.5°	472.3	467.1	461.2	457.8	454.6	451.2	449.6	450.7	449.6	451.2	454.6
170°	470.8	466.4	461.9	459.2	457.4	454.8	453.9	455.7	453.9	454.8	457.4
172.5°	468.7	465.7	462.6	460.7	459.6	456.9	457.4	458.5	457.4	456.9	459.6
175°	466.4	464.6	462.8	461.9	461.9	460.1	461.0	461.9	461.0	460.1	461.9
177.5°	464.9	463.5	462.8	462.8	462.8	461.4	462.1	463.5	462.1	461.4	462.8
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



TEST NUMBER: P331665-940  
 CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	944.8	942.9	939.4	934.2	930.9	925.3	921.6	923.7	924.3	923.7	923.2
5°	919.4	912.4	902.8	893.4	884.8	875.5	870.1	867.8	863.1	860.5	859.2
7.5°	888.7	876.6	863.0	846.8	832.9	818.5	811.1	807.4	797.9	792.7	788.2
10°	865.8	846.8	833.1	811.8	798.9	779.9	766.9	767.2	754.2	746.9	741.5
12.5°	840.5	819.7	796.9	777.8	759.7	744.5	728.8	722.5	708.6	701.6	687.2
15°	798.5	774.2	750.3	724.2	706.0	682.3	659.7	632.0	609.8	590.4	585.1
17.5°	752.7	722.6	698.6	668.1	636.7	596.9	570.7	554.6	541.2	531.0	523.4
20°	721.3	690.6	665.0	619.0	576.8	549.7	530.5	518.2	504.2	493.2	487.1
22.5°	688.2	656.3	621.3	570.0	537.1	515.4	498.2	484.0	474.6	466.0	460.6
25°	641.3	606.4	548.8	513.4	486.9	464.2	452.2	443.5	433.5	421.9	416.6
27.5°	591.8	536.2	494.8	468.6	443.2	428.5	417.7	404.7	395.8	390.6	385.0
30°	554.7	499.2	466.9	438.2	420.3	403.9	391.3	384.0	375.3	366.3	362.7
32.5°	513.4	469.0	438.1	414.3	396.0	382.1	372.1	360.3	354.0	348.5	340.8
35°	462.2	428.6	400.3	380.9	363.6	352.3	340.6	333.7	322.4	317.7	314.7
37.5°	418.7	389.6	368.5	348.1	334.4	321.9	314.8	303.6	298.7	292.2	285.9
40°	394.2	365.6	345.4	328.7	313.3	304.0	295.1	286.1	278.7	275.7	268.0
42.5°	369.3	345.9	325.6	307.4	297.1	287.2	275.9	269.3	261.6	256.8	252.1
45°	334.7	314.1	296.7	281.7	270.4	260.1	252.7	241.7	237.5	227.7	223.7
47.5°	304.3	285.1	268.6	254.3	243.3	236.6	225.9	217.2	210.4	204.4	199.3
50°	282.7	266.7	250.7	238.1	228.1	218.5	207.5	203.1	192.4	189.5	186.5
52.5°	263.0	247.8	233.2	220.8	210.8	201.4	191.7	186.1	178.9	175.8	173.7
55°	235.4	220.8	206.8	195.8	185.8	176.1	170.1	163.2	159.8	157.5	154.8
57.5°	207.7	194.6	183.8	172.7	162.6	155.0	148.0	143.8	140.4	137.3	134.1
60°	190.1	177.5	167.8	157.5	147.2	140.9	135.5	130.5	126.5	121.9	120.6
62.5°	171.5	160.4	151.6	141.5	132.5	126.7	121.7	117.0	112.2	105.4	103.5
65°	145.9	137.2	127.9	119.6	111.6	105.9	98.5	93.3	91.2	90.6	90.2
67.5°	122.7	114.5	106.5	98.0	90.7	85.4	81.7	80.9	79.5	79.1	78.2
70°	107.2	99.6	91.6	83.6	76.6	75.6	74.3	72.9	71.2	70.6	69.9
72.5°	93.4	85.4	77.5	71.1	68.0	66.8	65.5	64.1	63.0	62.3	62.0
75°	71.6	64.3	58.9	56.6	54.9	53.9	52.0	50.9	50.3	49.3	49.0
77.5°	51.5	47.4	44.9	43.5	41.7	40.7	39.6	38.5	37.8	37.6	37.1
80°	39.3	37.3	35.7	33.6	33.0	31.7	31.3	30.3	30.7	29.6	29.6
82.5°	30.5	28.0	26.6	25.7	25.0	23.9	23.5	23.1	23.2	22.5	22.5
85°	15.7	15.0	14.4	13.6	13.6	12.7	13.0	12.7	12.7	11.9	11.7
87.5°	7.2	7.5	7.8	9.1	10.2	10.1	9.9	9.5	9.1	9.5	9.4
90°	10.7	13.4	17.8	24.0	29.3	30.2	29.3	28.4	26.7	28.4	29.3
92.5°	32.0	40.4	60.5	88.8	114.0	115.7	97.7	77.6	66.6	59.1	53.6
95°	65.9	87.2	128.1	205.5	308.8	348.8	305.2	233.2	178.9	141.5	121.9
97.5°	93.5	117.6	169.1	277.0	448.5	595.6	624.7	544.1	445.1	348.8	284.6
100°	111.3	136.2	183.3	291.9	484.1	703.0	831.3	812.5	702.1	580.2	472.6
102.5°	127.6	152.6	196.2	292.7	470.6	706.6	908.1	988.4	963.5	874.3	760.2
105°	151.3	176.2	218.0	297.2	444.1	659.4	896.2	1081.3	1181.9	1193.5	1164.0
107.5°	174.8	199.9	240.5	309.5	430.9	608.9	818.1	1014.4	1165.8	1258.4	1301.5
110°	190.5	216.2	255.4	319.5	428.1	584.7	768.9	956.7	1116.0	1229.9	1302.9



TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	205.4	231.9	269.7	330.2	428.7	569.0	734.8	904.0	1056.9	1178.7	1262.3
115°	229.6	253.6	291.9	346.2	432.5	551.8	692.4	839.2	976.2	1092.9	1184.5
117.5°	252.0	277.0	312.4	363.3	438.9	543.4	665.7	790.4	910.8	1016.5	1102.5
120°	267.0	291.9	326.6	374.7	443.2	538.4	651.5	766.2	876.6	970.9	1052.0
122.5°	282.0	307.6	340.1	384.6	448.2	535.6	639.4	747.0	848.1	937.5	1010.7
125°	303.4	328.4	360.4	400.5	455.7	530.4	622.1	719.1	810.7	889.0	955.8
127.5°	322.5	348.1	379.3	415.3	463.3	527.4	606.1	691.5	774.5	848.3	909.9
130°	334.7	359.5	390.7	424.5	469.0	525.9	595.4	673.7	750.2	820.6	879.3
132.5°	346.0	371.0	400.6	433.7	474.7	525.2	586.8	656.6	727.5	792.0	847.2
135°	361.3	386.2	414.7	445.9	481.4	524.1	574.9	632.8	691.5	750.2	800.0
137.5°	374.9	398.0	426.1	455.1	487.5	524.0	566.5	613.7	662.8	709.4	752.9
140°	382.7	405.8	432.5	460.1	490.4	523.3	561.6	601.6	644.4	685.3	724.4
142.5°	389.8	411.5	437.5	464.4	492.5	523.3	556.6	591.7	627.9	663.2	696.0
145°	401.4	421.0	445.0	469.9	494.8	521.5	550.0	577.6	607.0	634.5	660.3
147.5°	411.0	428.5	451.0	473.0	495.5	518.4	543.2	566.7	589.9	611.4	630.3
150°	417.4	433.4	453.9	474.3	494.8	516.2	537.5	558.9	578.5	597.2	613.1
152.5°	423.8	438.4	456.7	475.0	493.4	512.6	532.5	551.1	569.2	585.1	599.0
155°	432.5	445.9	461.0	476.1	491.2	506.4	523.3	540.2	554.5	567.8	577.6
157.5°	440.0	451.2	464.0	476.1	487.1	500.0	514.6	527.5	539.5	550.7	558.4
160°	445.0	454.8	465.5	476.1	485.0	495.7	508.2	519.7	529.5	539.3	545.5
162.5°	449.2	456.9	466.2	475.4	482.9	492.1	502.5	511.9	520.2	528.6	533.4
165°	453.9	459.2	467.3	473.5	478.8	485.0	493.0	500.2	506.4	512.6	516.2
167.5°	457.8	461.2	467.1	472.3	474.7	478.8	483.8	488.9	493.7	498.0	501.2
170°	459.2	461.9	466.4	470.8	472.6	475.2	478.8	483.2	485.9	489.5	491.2
172.5°	460.7	462.6	465.7	468.7	469.8	471.0	473.9	476.8	478.8	481.6	482.7
175°	461.9	462.8	464.6	466.4	465.5	466.4	467.3	469.9	470.8	471.7	472.6
177.5°	462.8	462.8	463.5	464.9	463.5	462.8	463.5	464.9	464.9	465.7	465.7
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



TEST NUMBER: P331665-940  
 CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	920.2	920.8	920.0	920.5	920.0	920.8	920.2	923.2	923.7	924.3	923.7
5°	857.5	853.5	852.8	851.9	852.8	853.5	857.5	859.2	860.5	863.1	867.8
7.5°	782.5	781.9	780.2	777.8	780.2	781.9	782.5	788.2	792.7	797.9	807.4
10°	734.2	732.6	732.3	730.0	732.3	732.6	734.2	741.5	746.9	754.2	767.2
12.5°	677.8	667.1	665.9	660.1	665.9	667.1	677.8	687.2	701.6	708.6	722.5
15°	577.1	575.1	568.5	564.1	568.5	575.1	577.1	585.1	590.4	609.8	632.0
17.5°	519.5	513.0	511.0	510.1	511.0	513.0	519.5	523.4	531.0	541.2	554.6
20°	482.5	476.5	475.5	474.8	475.5	476.5	482.5	487.1	493.2	504.2	518.2
22.5°	456.9	450.7	448.1	446.1	448.1	450.7	456.9	460.6	466.0	474.6	484.0
25°	413.2	410.9	409.6	408.9	409.6	410.9	413.2	416.6	421.9	433.5	443.5
27.5°	379.1	374.0	372.9	371.2	372.9	374.0	379.1	385.0	390.6	395.8	404.7
30°	359.6	357.9	355.6	353.7	355.6	357.9	359.6	362.7	366.3	375.3	384.0
32.5°	336.7	335.4	333.2	332.3	333.2	335.4	336.7	340.8	348.5	354.0	360.3
35°	311.4	306.7	304.7	301.7	304.7	306.7	311.4	314.7	317.7	322.4	333.7
37.5°	284.5	282.0	279.3	280.3	279.3	282.0	284.5	285.9	292.2	298.7	303.6
40°	263.8	262.1	261.4	261.1	261.4	262.1	263.8	268.0	275.7	278.7	286.1
42.5°	247.2	242.6	240.9	240.9	240.9	242.6	247.2	252.1	256.8	261.6	269.3
45°	222.1	217.8	214.8	215.1	214.8	217.8	222.1	223.7	227.7	237.5	241.7
47.5°	196.4	196.3	194.4	195.0	194.4	196.3	196.4	199.3	204.4	210.4	217.2
50°	184.1	182.2	180.8	181.1	180.8	182.2	184.1	186.5	189.5	192.4	203.1
52.5°	172.5	170.7	169.6	171.0	169.6	170.7	172.5	173.7	175.8	178.9	186.1
55°	153.2	151.1	150.9	150.5	150.9	151.1	153.2	154.8	157.5	159.8	163.2
57.5°	131.7	130.4	128.3	127.5	128.3	130.4	131.7	134.1	137.3	140.4	143.8
60°	116.2	113.5	110.2	109.9	110.2	113.5	116.2	120.6	121.9	126.5	130.5
62.5°	102.1	101.6	100.9	100.9	100.9	101.6	102.1	103.5	105.4	112.2	117.0
65°	89.6	89.3	89.6	89.9	89.6	89.3	89.6	90.2	90.6	91.2	93.3
67.5°	78.0	77.5	76.9	77.1	76.9	77.5	78.0	78.2	79.1	79.5	80.9
70°	69.3	68.9	68.6	68.6	68.6	68.9	69.3	69.9	70.6	71.2	72.9
72.5°	60.7	60.6	60.4	60.1	60.4	60.6	60.7	62.0	62.3	63.0	64.1
75°	48.6	48.0	48.0	48.0	48.0	48.0	48.6	49.0	49.3	50.3	50.9
77.5°	37.0	36.7	36.4	36.1	36.4	36.7	37.0	37.1	37.6	37.8	38.5
80°	29.3	29.0	28.6	28.6	28.6	29.0	29.3	29.6	29.6	30.7	30.3
82.5°	22.4	22.0	21.9	21.7	21.9	22.0	22.4	22.5	22.5	23.2	23.1
85°	11.9	12.3	11.9	12.7	11.9	12.3	11.9	11.7	11.9	12.7	12.7
87.5°	9.4	9.1	9.4	9.1	9.4	9.1	9.4	9.4	9.5	9.1	9.5
90°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.4	26.7	28.4
92.5°	52.9	50.0	50.7	49.3	50.7	50.0	52.9	53.6	59.1	66.6	77.6
95°	110.4	103.3	100.6	101.5	100.6	103.3	110.4	121.9	141.5	178.9	233.2
97.5°	242.1	220.2	207.1	199.7	207.1	220.2	242.1	284.6	348.8	445.1	544.1
100°	398.7	360.4	334.7	318.6	334.7	360.4	398.7	472.6	580.2	702.1	812.5
102.5°	679.9	614.6	582.4	560.7	582.4	614.6	679.9	760.2	874.3	963.5	988.4
105°	1108.8	1053.7	1015.4	1003.0	1015.4	1053.7	1108.8	1164.0	1193.5	1181.9	1081.3
107.5°	1308.4	1305.4	1297.7	1281.2	1297.7	1305.4	1308.4	1301.5	1258.4	1165.8	1014.4
110°	1341.1	1358.1	1366.1	1365.2	1366.1	1358.1	1341.1	1302.9	1229.9	1116.0	956.7



TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1315.5	1343.8	1359.0	1363.8	1359.0	1343.8	1315.5	1262.3	1178.7	1056.9	904.0
115°	1247.7	1288.6	1311.8	1319.8	1311.8	1288.6	1247.7	1184.5	1092.9	976.2	839.2
117.5°	1166.9	1210.1	1234.6	1241.3	1234.6	1210.1	1166.9	1102.5	1016.5	910.8	790.4
120°	1114.2	1156.0	1181.9	1190.8	1181.9	1156.0	1114.2	1052.0	970.9	876.6	766.2
122.5°	1066.5	1107.6	1130.6	1138.1	1130.6	1107.6	1066.5	1010.7	937.5	848.1	747.0
125°	1007.5	1041.3	1063.5	1070.6	1063.5	1041.3	1007.5	955.8	889.0	810.7	719.1
127.5°	954.9	986.6	1005.8	1011.6	1005.8	986.6	954.9	909.9	848.3	774.5	691.5
130°	922.9	953.1	970.9	978.0	970.9	953.1	922.9	879.3	820.6	750.2	673.7
132.5°	890.1	920.4	936.7	943.2	936.7	920.4	890.1	847.2	792.0	727.5	656.6
135°	838.3	867.7	883.7	887.3	883.7	867.7	838.3	800.0	750.2	691.5	632.8
137.5°	787.8	813.1	827.2	832.5	827.2	813.1	787.8	752.9	709.4	662.8	613.7
140°	752.9	776.1	789.4	794.7	789.4	776.1	752.9	724.4	685.3	644.4	601.6
142.5°	723.0	744.0	755.9	757.0	755.9	744.0	723.0	696.0	663.2	627.9	591.7
145°	681.7	696.9	705.7	708.4	705.7	696.9	681.7	660.3	634.5	607.0	577.6
147.5°	647.9	660.0	666.0	667.6	666.0	660.0	647.9	630.3	611.4	589.9	566.7
150°	626.5	637.2	642.6	643.5	642.6	637.2	626.5	613.1	597.2	578.5	558.9
152.5°	609.4	618.7	622.6	622.8	622.6	618.7	609.4	599.0	585.1	569.2	551.1
155°	587.4	593.6	597.2	595.4	597.2	593.6	587.4	577.6	567.8	554.5	540.2
157.5°	565.3	570.4	572.0	572.0	572.0	570.4	565.3	558.4	550.7	539.5	527.5
160°	551.8	556.2	557.1	557.1	557.1	556.2	551.8	545.5	539.3	529.5	519.7
162.5°	539.7	542.7	543.6	542.9	543.6	542.7	539.7	533.4	528.6	520.2	511.9
165°	519.7	523.3	523.3	522.4	523.3	523.3	519.7	516.2	512.6	506.4	500.2
167.5°	502.8	504.8	504.6	503.5	504.6	504.8	502.8	501.2	498.0	493.7	488.9
170°	492.1	494.8	493.9	492.1	493.9	494.8	492.1	491.2	489.5	485.9	483.2
172.5°	483.6	484.8	483.9	482.9	483.9	484.8	483.6	482.7	481.6	478.8	476.8
175°	472.6	473.5	472.6	470.8	472.6	473.5	472.6	472.6	471.7	470.8	469.9
177.5°	465.7	465.7	464.9	463.5	464.9	465.7	465.7	465.7	465.7	464.9	464.9
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	921.6	925.3	930.9	934.2	939.4	942.9	944.8	948.2	950.1	956.8	963.7
5°	870.1	875.5	884.8	893.4	902.8	912.4	919.4	927.4	934.7	947.4	960.7
7.5°	811.1	818.5	832.9	846.8	863.0	876.6	888.7	902.3	914.5	932.6	951.5
10°	766.9	779.9	798.9	811.8	833.1	846.8	865.8	880.7	897.8	921.8	943.1
12.5°	728.8	744.5	759.7	777.8	796.9	819.7	840.5	859.7	879.9	904.7	929.7
15°	659.7	682.3	706.0	724.2	750.3	774.2	798.5	824.5	849.2	878.8	911.4
17.5°	570.7	596.9	636.7	668.1	698.6	722.6	752.7	784.2	813.2	848.9	885.2
20°	530.5	549.7	576.8	619.0	665.0	690.6	721.3	755.9	789.2	828.1	867.1
22.5°	498.2	515.4	537.1	570.0	621.3	656.3	688.2	723.4	762.1	801.8	845.0
25°	452.2	464.2	486.9	513.4	548.8	606.4	641.3	676.6	718.6	761.3	810.5
27.5°	417.7	428.5	443.2	468.6	494.8	536.2	591.8	630.3	672.1	720.1	771.2
30°	391.3	403.9	420.3	438.2	466.9	499.2	554.7	599.4	640.7	690.0	744.6
32.5°	372.1	382.1	396.0	414.3	438.1	469.0	513.4	567.7	607.9	659.9	716.8
35°	340.6	352.3	363.6	380.9	400.3	428.6	462.2	520.1	560.1	611.4	668.7
37.5°	314.8	321.9	334.4	348.1	368.5	389.6	418.7	470.7	514.0	564.3	622.9
40°	295.1	304.0	313.3	328.7	345.4	365.6	394.2	432.9	482.5	531.8	589.1
42.5°	275.9	287.2	297.1	307.4	325.6	345.9	369.3	402.0	452.6	499.3	555.0
45°	252.7	260.1	270.4	281.7	296.7	314.1	334.7	363.3	411.9	452.2	504.5
47.5°	225.9	236.6	243.3	254.3	268.6	285.1	304.3	329.0	368.5	406.2	454.7
50°	207.5	218.5	228.1	238.1	250.7	266.7	282.7	306.7	338.3	378.0	423.2
52.5°	191.7	201.4	210.8	220.8	233.2	247.8	263.0	284.0	311.1	347.6	391.6
55°	170.1	176.1	185.8	195.8	206.8	220.8	235.4	253.1	276.4	307.0	342.7
57.5°	148.0	155.0	162.6	172.7	183.8	194.6	207.7	223.7	242.1	269.8	300.3
60°	135.5	140.9	147.2	157.5	167.8	177.5	190.1	203.5	220.8	244.8	270.7
62.5°	121.7	126.7	132.5	141.5	151.6	160.4	171.5	185.7	200.3	222.1	244.9
65°	98.5	105.9	111.6	119.6	127.9	137.2	145.9	157.2	170.1	187.4	207.8
67.5°	81.7	85.4	90.7	98.0	106.5	114.5	122.7	131.5	142.8	156.1	172.3
70°	74.3	75.6	76.6	83.6	91.6	99.6	107.2	115.6	125.2	136.2	150.2
72.5°	65.5	66.8	68.0	71.1	77.5	85.4	93.4	99.6	108.7	117.8	129.1
75°	52.0	53.9	54.9	56.6	58.9	64.3	71.6	77.6	82.9	89.9	98.9
77.5°	39.6	40.7	41.7	43.5	44.9	47.4	51.5	57.0	62.0	66.0	72.2
80°	31.3	31.7	33.0	33.6	35.7	37.3	39.3	43.6	48.6	50.3	54.6
82.5°	23.5	23.9	25.0	25.7	26.6	28.0	30.5	31.7	35.6	37.7	40.5
85°	13.0	12.7	13.6	13.6	14.4	15.0	15.7	17.3	18.3	21.0	21.7
87.5°	9.9	10.1	10.2	9.1	7.8	7.5	7.2	7.1	7.3	7.4	7.9
90°	29.3	30.2	29.3	24.0	17.8	13.4	10.7	8.9	7.1	3.6	0.9
92.5°	97.7	115.7	114.0	88.8	60.5	40.4	32.0	25.9	22.1	15.7	10.9
95°	305.2	348.8	308.8	205.5	128.1	87.2	65.9	51.6	43.6	34.7	31.1
97.5°	624.7	595.6	448.5	277.0	169.1	117.6	93.5	77.0	65.0	55.6	50.7
100°	831.3	703.0	484.1	291.9	183.3	136.2	111.3	93.5	79.2	71.2	68.5
102.5°	908.1	706.6	470.6	292.7	196.2	152.6	127.6	109.1	94.9	86.9	84.9
105°	896.2	659.4	444.1	297.2	218.0	176.2	151.3	131.7	118.3	112.2	108.6
107.5°	818.1	608.9	430.9	309.5	240.5	199.9	174.8	155.4	143.1	137.1	134.2
110°	768.9	584.7	428.1	319.5	255.4	216.2	190.5	171.7	160.2	154.9	151.3



TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	734.8	569.0	428.7	330.2	269.7	231.9	205.4	187.4	176.6	170.5	166.9
115°	692.4	551.8	432.5	346.2	291.9	253.6	229.6	211.8	201.2	195.8	191.4
117.5°	665.7	543.4	438.9	363.3	312.4	277.0	252.0	235.0	225.5	220.2	216.6
120°	651.5	538.4	443.2	374.7	326.6	291.9	267.0	249.1	241.2	235.9	232.3
122.5°	639.4	535.6	448.2	384.6	340.1	307.6	282.0	264.1	255.4	250.0	247.3
125°	622.1	530.4	455.7	400.5	360.4	328.4	303.4	285.7	275.0	269.7	267.0
127.5°	606.1	527.4	463.3	415.3	379.3	348.1	322.5	305.4	293.6	286.2	282.7
130°	595.4	525.9	469.0	424.5	390.7	359.5	334.7	316.8	304.3	295.4	291.9
132.5°	586.8	525.2	474.7	433.7	400.6	371.0	346.0	327.5	314.3	304.7	300.4
135°	574.9	524.1	481.4	445.9	414.7	386.2	361.3	340.8	327.5	316.8	313.3
137.5°	566.5	524.0	487.5	455.1	426.1	398.0	374.9	354.5	340.3	329.7	325.4
140°	561.6	523.3	490.4	460.1	432.5	405.8	382.7	363.1	348.8	338.2	334.7
142.5°	556.6	523.3	492.5	464.4	437.5	411.5	389.8	371.0	356.7	346.7	343.8
145°	550.0	521.5	494.8	469.9	445.0	421.0	401.4	383.6	370.2	361.3	357.8
147.5°	543.2	518.4	495.5	473.0	451.0	428.5	411.0	396.2	383.9	375.4	372.7
150°	537.5	516.2	494.8	474.3	453.9	433.4	417.4	404.0	392.4	385.3	382.7
152.5°	532.5	512.6	493.4	475.0	456.7	438.4	423.8	411.2	401.0	393.9	392.6
155°	523.3	506.4	491.2	476.1	461.0	445.9	432.5	422.8	413.0	407.6	406.7
157.5°	514.6	500.0	487.1	476.1	464.0	451.2	440.0	432.1	423.7	419.4	418.5
160°	508.2	495.7	485.0	476.1	465.5	454.8	445.0	437.8	430.7	427.2	426.3
162.5°	502.5	492.1	482.9	475.4	466.2	456.9	449.2	442.8	437.1	433.5	434.1
165°	493.0	485.0	478.8	473.5	467.3	459.2	453.9	449.4	444.1	442.3	443.2
167.5°	483.8	478.8	474.7	472.3	467.1	461.2	457.8	454.6	451.2	449.6	450.7
170°	478.8	475.2	472.6	470.8	466.4	461.9	459.2	457.4	454.8	453.9	455.7
172.5°	473.9	471.0	469.8	468.7	465.7	462.6	460.7	459.6	456.9	457.4	458.5
175°	467.3	466.4	465.5	466.4	464.6	462.8	461.9	461.9	460.1	461.0	461.9
177.5°	463.5	462.8	463.5	464.9	463.5	462.8	462.8	462.8	461.4	462.1	463.5
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	963.9	964.7	970.1	972.5	977.3	979.2	981.2	980.7	980.7	981.8	989.3
5°	966.0	972.7	982.7	992.3	1001.7	1009.7	1014.9	1020.3	1022.3	1032.0	1040.6
7.5°	962.6	974.8	991.3	1006.0	1023.7	1037.5	1048.9	1059.3	1066.3	1080.4	1094.8
10°	958.1	975.4	994.0	1013.0	1037.3	1055.6	1074.2	1088.6	1093.2	1114.2	1126.2
12.5°	949.0	972.1	995.9	1020.5	1044.2	1069.4	1089.9	1104.3	1120.7	1139.5	1161.6
15°	935.4	962.1	993.0	1024.7	1058.6	1089.2	1111.3	1136.2	1154.1	1174.8	1194.1
17.5°	915.9	950.2	989.5	1026.2	1065.4	1098.3	1128.6	1152.5	1165.2	1177.0	1179.9
20°	900.4	937.4	983.6	1027.0	1066.2	1104.2	1134.2	1154.1	1157.5	1157.8	1140.1
22.5°	883.7	925.4	973.8	1018.2	1065.1	1107.4	1130.7	1139.2	1126.1	1103.5	1069.3
25°	852.8	901.1	957.3	1008.0	1059.3	1099.2	1107.2	1092.3	1046.0	997.3	935.8
27.5°	819.4	873.6	934.0	990.2	1044.9	1069.7	1052.4	998.4	915.0	842.6	754.7
30°	794.9	855.8	915.1	978.0	1028.6	1039.3	999.7	920.1	822.9	713.6	626.1
32.5°	766.9	830.7	895.9	961.0	1003.4	992.9	927.5	829.5	715.5	608.1	525.3
35°	726.9	792.9	863.1	928.4	955.4	910.4	812.5	685.0	568.5	468.2	411.3
37.5°	680.8	752.6	825.6	885.6	883.7	808.7	675.4	543.7	445.8	386.5	345.9
40°	648.0	720.6	799.5	850.2	828.5	730.9	586.4	462.2	390.6	343.3	313.7
42.5°	616.6	689.5	767.9	808.1	770.4	650.5	506.5	409.2	350.1	313.3	289.2
45°	563.1	640.0	712.7	734.9	667.6	535.5	409.6	339.0	299.7	272.4	255.7
47.5°	510.9	586.5	652.7	653.2	562.1	434.3	345.5	293.4	259.8	238.7	226.6
50°	478.8	550.8	606.4	597.7	494.5	386.3	309.0	264.0	236.1	219.8	207.1
52.5°	442.9	512.6	560.8	536.2	437.2	339.9	276.3	238.5	215.3	201.2	189.8
55°	390.6	452.5	486.5	449.2	356.7	282.7	233.4	203.8	186.5	174.5	164.9
57.5°	339.3	390.3	411.7	368.3	293.7	234.4	197.4	175.2	158.0	149.5	144.5
60°	307.0	350.6	365.6	317.7	255.4	205.1	174.9	154.2	141.5	135.9	130.9
62.5°	275.4	310.9	317.2	273.2	222.7	179.6	153.6	136.1	127.7	122.3	117.5
65°	228.5	254.0	251.1	215.8	176.1	142.5	123.5	112.9	106.6	98.9	90.6
67.5°	188.1	203.8	194.3	167.8	134.5	110.8	98.4	90.3	82.5	75.2	73.3
70°	162.5	171.5	161.5	137.2	110.2	92.9	82.9	73.3	68.6	67.0	63.9
72.5°	138.0	141.2	130.4	109.5	89.7	77.0	67.2	61.8	59.3	57.9	55.9
75°	103.5	101.2	91.9	75.6	62.2	53.6	50.6	48.6	47.0	45.7	44.6
77.5°	72.8	69.3	61.0	50.4	43.3	39.2	37.5	36.4	35.6	34.9	33.9
80°	54.6	52.3	44.0	35.9	33.0	30.9	30.0	28.6	28.6	28.0	26.9
82.5°	39.9	37.4	30.1	26.4	24.7	23.5	22.7	21.9	21.7	21.8	21.1
85°	21.0	16.9	15.0	14.4	13.3	12.7	13.0	12.3	12.3	12.3	11.9
87.5°	7.1	6.5	6.6	6.7	7.5	8.4	9.4	10.4	10.9	10.4	10.5
90°	3.6	7.1	8.9	10.7	13.4	17.8	24.0	29.3	30.2	29.3	28.4
92.5°	15.7	22.1	25.9	32.0	40.4	60.5	88.8	114.0	115.7	97.7	77.6
95°	34.7	43.6	51.6	65.9	87.2	128.1	205.5	308.8	348.8	305.2	233.2
97.5°	55.6	65.0	77.0	93.5	117.6	169.1	277.0	448.5	595.6	624.7	544.1
100°	71.2	79.2	93.5	111.3	136.2	183.3	291.9	484.1	703.0	831.3	812.5
102.5°	86.9	94.9	109.1	127.6	152.6	196.2	292.7	470.6	706.6	908.1	988.4
105°	112.2	118.3	131.7	151.3	176.2	218.0	297.2	444.1	659.4	896.2	1081.3
107.5°	137.1	143.1	155.4	174.8	199.9	240.5	309.5	430.9	608.9	818.1	1014.4
110°	154.9	160.2	171.7	190.5	216.2	255.4	319.5	428.1	584.7	768.9	956.7





TEST NUMBER: P331665-940

CATALOG NUMBER: SA2XXRDIP-C485D925U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	170.5	176.6	187.4	205.4	231.9	269.7	330.2	428.7	569.0	734.8	904.0
115°	195.8	201.2	211.8	229.6	253.6	291.9	346.2	432.5	551.8	692.4	839.2
117.5°	220.2	225.5	235.0	252.0	277.0	312.4	363.3	438.9	543.4	665.7	790.4
120°	235.9	241.2	249.1	267.0	291.9	326.6	374.7	443.2	538.4	651.5	766.2
122.5°	250.0	255.4	264.1	282.0	307.6	340.1	384.6	448.2	535.6	639.4	747.0
125°	269.7	275.0	285.7	303.4	328.4	360.4	400.5	455.7	530.4	622.1	719.1
127.5°	286.2	293.6	305.4	322.5	348.1	379.3	415.3	463.3	527.4	606.1	691.5
130°	295.4	304.3	316.8	334.7	359.5	390.7	424.5	469.0	525.9	595.4	673.7
132.5°	304.7	314.3	327.5	346.0	371.0	400.6	433.7	474.7	525.2	586.8	656.6
135°	316.8	327.5	340.8	361.3	386.2	414.7	445.9	481.4	524.1	574.9	632.8
137.5°	329.7	340.3	354.5	374.9	398.0	426.1	455.1	487.5	524.0	566.5	613.7
140°	338.2	348.8	363.1	382.7	405.8	432.5	460.1	490.4	523.3	561.6	601.6
142.5°	346.7	356.7	371.0	389.8	411.5	437.5	464.4	492.5	523.3	556.6	591.7
145°	361.3	370.2	383.6	401.4	421.0	445.0	469.9	494.8	521.5	550.0	577.6
147.5°	375.4	383.9	396.2	411.0	428.5	451.0	473.0	495.5	518.4	543.2	566.7
150°	385.3	392.4	404.0	417.4	433.4	453.9	474.3	494.8	516.2	537.5	558.9
152.5°	393.9	401.0	411.2	423.8	438.4	456.7	475.0	493.4	512.6	532.5	551.1
155°	407.6	413.0	422.8	432.5	445.9	461.0	476.1	491.2	506.4	523.3	540.2
157.5°	419.4	423.7	432.1	440.0	451.2	464.0	476.1	487.1	500.0	514.6	527.5
160°	427.2	430.7	437.8	445.0	454.8	465.5	476.1	485.0	495.7	508.2	519.7
162.5°	433.5	437.1	442.8	449.2	456.9	466.2	475.4	482.9	492.1	502.5	511.9
165°	442.3	444.1	449.4	453.9	459.2	467.3	473.5	478.8	485.0	493.0	500.2
167.5°	449.6	451.2	454.6	457.8	461.2	467.1	472.3	474.7	478.8	483.8	488.9
170°	453.9	454.8	457.4	459.2	461.9	466.4	470.8	472.6	475.2	478.8	483.2
172.5°	457.4	456.9	459.6	460.7	462.6	465.7	468.7	469.8	471.0	473.9	476.8
175°	461.0	460.1	461.9	461.9	462.8	464.6	466.4	465.5	466.4	467.3	469.9
177.5°	462.1	461.4	462.8	462.8	462.8	463.5	464.9	463.5	462.8	463.5	464.9
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	991.9	995.4	997.0	997.0	998.9	998.1	997.3
5°	1048.9	1055.3	1056.6	1062.6	1066.9	1065.6	1066.2
7.5°	1105.6	1115.8	1125.9	1130.4	1131.2	1133.9	1134.9
10°	1140.5	1148.9	1164.5	1162.2	1173.8	1180.4	1169.5
12.5°	1174.1	1185.4	1196.2	1199.2	1205.8	1207.9	1203.5
15°	1204.4	1210.4	1211.1	1209.4	1211.5	1209.8	1203.5
17.5°	1176.1	1166.4	1146.7	1137.3	1129.9	1119.0	1114.6
20°	1129.2	1100.5	1067.3	1053.9	1038.3	1007.6	1014.9
22.5°	1028.0	995.3	962.1	923.1	904.6	875.5	873.8
25°	870.5	814.2	752.2	708.9	683.7	654.7	642.0
27.5°	676.8	605.9	555.2	529.5	506.0	483.1	482.1
30°	549.5	496.1	456.9	434.9	420.6	410.9	413.0
32.5°	463.2	426.6	400.1	381.9	371.3	364.0	363.9
35°	378.6	353.7	336.6	329.0	321.4	316.0	316.4
37.5°	324.0	309.0	299.5	291.1	286.3	283.7	282.2
40°	296.0	283.7	276.4	271.4	267.4	263.8	263.1
42.5°	273.9	263.8	256.4	252.4	248.8	246.1	245.5
45°	243.1	234.8	228.1	223.7	222.1	219.8	219.8
47.5°	216.2	208.0	202.9	200.1	197.2	195.7	195.6
50°	198.1	191.8	187.2	185.5	183.2	182.2	181.8
52.5°	181.9	177.2	173.8	172.7	171.7	170.4	170.6
55°	159.8	157.2	155.9	154.8	153.2	151.1	152.5
57.5°	141.2	139.0	135.4	132.2	130.7	129.3	129.8
60°	128.2	123.5	118.9	115.2	114.2	111.2	111.2
62.5°	111.7	105.1	99.4	97.4	96.4	95.0	94.7
65°	85.9	83.3	81.9	80.6	79.9	79.9	79.3
67.5°	71.2	70.1	68.7	68.3	67.7	67.5	67.2
70°	63.0	61.6	60.9	60.6	59.9	60.3	59.3
72.5°	54.9	53.9	53.8	52.9	52.5	52.5	51.8
75°	43.2	43.2	43.0	42.6	42.0	41.6	42.0
77.5°	33.3	33.3	32.7	32.7	32.6	32.7	32.4
80°	26.7	26.9	26.7	26.3	25.9	26.3	25.9
82.5°	21.0	20.6	20.5	20.4	20.4	20.2	20.2
85°	11.9	12.3	11.9	11.7	11.7	11.7	11.9
87.5°	9.9	10.3	10.4	10.4	10.4	10.4	10.2
90°	26.7	28.4	29.3	29.3	29.3	29.3	29.3
92.5°	66.6	59.1	53.6	52.9	50.0	50.7	49.3
95°	178.9	141.5	121.9	110.4	103.3	100.6	101.5
97.5°	445.1	348.8	284.6	242.1	220.2	207.1	199.7
100°	702.1	580.2	472.6	398.7	360.4	334.7	318.6
102.5°	963.5	874.3	760.2	679.9	614.6	582.4	560.7
105°	1181.9	1193.5	1164.0	1108.8	1053.7	1015.4	1003.0
107.5°	1165.8	1258.4	1301.5	1308.4	1305.4	1297.7	1281.2
110°	1116.0	1229.9	1302.9	1341.1	1358.1	1366.1	1365.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1056.9	1178.7	1262.3	1315.5	1343.8	1359.0	1363.8
115°	976.2	1092.9	1184.5	1247.7	1288.6	1311.8	1319.8
117.5°	910.8	1016.5	1102.5	1166.9	1210.1	1234.6	1241.3
120°	876.6	970.9	1052.0	1114.2	1156.0	1181.9	1190.8
122.5°	848.1	937.5	1010.7	1066.5	1107.6	1130.6	1138.1
125°	810.7	889.0	955.8	1007.5	1041.3	1063.5	1070.6
127.5°	774.5	848.3	909.9	954.9	986.6	1005.8	1011.6
130°	750.2	820.6	879.3	922.9	953.1	970.9	978.0
132.5°	727.5	792.0	847.2	890.1	920.4	936.7	943.2
135°	691.5	750.2	800.0	838.3	867.7	883.7	887.3
137.5°	662.8	709.4	752.9	787.8	813.1	827.2	832.5
140°	644.4	685.3	724.4	752.9	776.1	789.4	794.7
142.5°	627.9	663.2	696.0	723.0	744.0	755.9	757.0
145°	607.0	634.5	660.3	681.7	696.9	705.7	708.4
147.5°	589.9	611.4	630.3	647.9	660.0	666.0	667.6
150°	578.5	597.2	613.1	626.5	637.2	642.6	643.5
152.5°	569.2	585.1	599.0	609.4	618.7	622.6	622.8
155°	554.5	567.8	577.6	587.4	593.6	597.2	595.4
157.5°	539.5	550.7	558.4	565.3	570.4	572.0	572.0
160°	529.5	539.3	545.5	551.8	556.2	557.1	557.1
162.5°	520.2	528.6	533.4	539.7	542.7	543.6	542.9
165°	506.4	512.6	516.2	519.7	523.3	523.3	522.4
167.5°	493.7	498.0	501.2	502.8	504.8	504.6	503.5
170°	485.9	489.5	491.2	492.1	494.8	493.9	492.1
172.5°	478.8	481.6	482.7	483.6	484.8	483.9	482.9
175°	470.8	471.7	472.6	472.6	473.5	472.6	470.8
177.5°	464.9	465.7	465.7	465.7	465.7	464.9	463.5
180°	462.8	462.8	462.8	462.8	462.8	462.8	462.8

(END OF REPORT)