

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: P331671-935

Luminaire Tested: **SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331671-935  
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-C485D1080U935-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5223.1 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

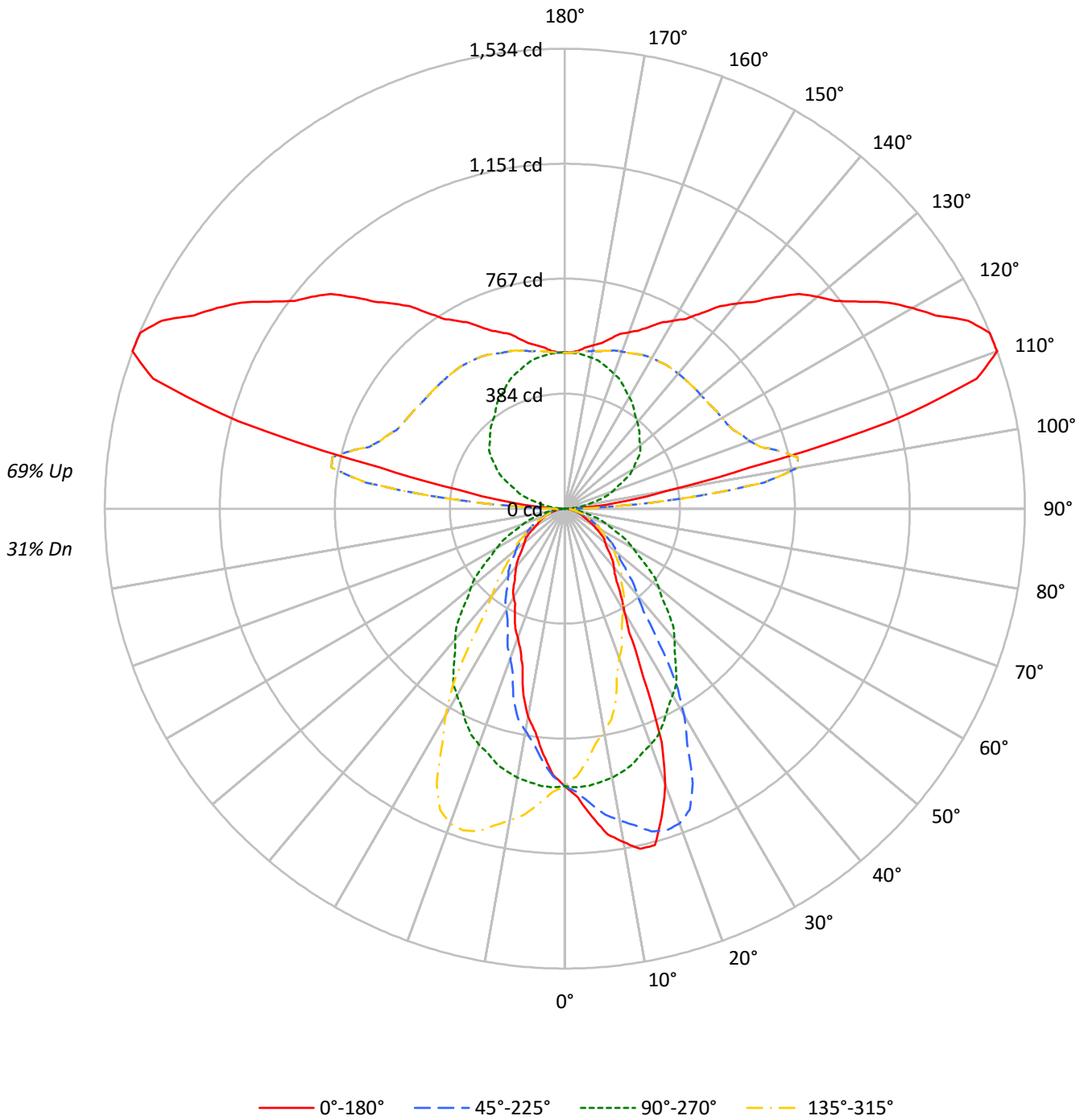
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	47	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	56	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

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

	0°	90°	180°	270°
0°	14941	14941	14941	14941
5°	16686	15034	13331	15034
10°	18513	14929	11555	14929
15°	19423	14710	9105	14710
20°	16838	14385	7878	14385
25°	11043	13942	7035	13942
30°	7433	13403	6367	13403
35°	6022	12727	5742	12727
40°	5354	11989	5313	11989
45°	4845	11125	4743	11125
50°	4411	10263	4393	10263
55°	4144	9315	4090	9315
60°	3468	8441	3426	8441
65°	2923	7664	3316	7664
70°	2705	6845	3125	6845
75°	2533	5958	2888	5958
80°	2334	4900	2566	4900
85°	2130	3872	2260	3872



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CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	1.7
10°-20°	244.4	4.7
20°-30°	315.0	6.0
30°-40°	299.3	5.7
40°-50°	256.4	4.9
50°-60°	195.3	3.7
60°-70°	123.4	2.4
70°-80°	61.6	1.2
80°-90°	20.7	0.4
90°-100°	208.0	4.0
100°-110°	705.7	13.5
110°-120°	749.7	14.4
120°-130°	617.2	11.8
130°-140°	495.6	9.5
140°-150°	374.5	7.2
150°-160°	263.2	5.0
160°-170°	154.9	3.0
170°-180°	50.4	1.0
0°-30°	647.1	12.4
0°-40°	946.4	18.1
0°-60°	1398.1	26.8
0°-90°	1603.9	30.7
90°-120°	1663.4	31.8
90°-150°	3150.7	60.3
90°-180°	3619.0	69.3
0°-180°	5223.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	925	925	925	925	925	
5°	1030	928	822	928	1030	102
15°	1162	880	545	880	1162	313
25°	620	783	395	783	620	294
35°	306	646	291	646	306	195
45°	212	487	208	487	212	164
55°	147	331	145	331	147	129
65°	76	201	87	201	76	78
75°	41	96	46	96	41	43
85°	12	21	12	21	12	13
90°	33	1	33	1	33	18
95°	114	35	114	35	114	148
105°	1127	122	1127	122	1127	1091
115°	1483	215	1483	215	1483	1453
125°	1203	300	1203	300	1203	1087
135°	997	352	997	352	997	775
145°	796	402	796	402	796	506
155°	669	457	669	457	669	312
165°	587	498	587	498	587	168
175°	529	519	529	519	529	51
180°	520	520	520	520	520	



TEST NUMBER: P331671-935

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	962.9	963.7	964.5	962.7	962.7	961.1	957.8	955.2	948.0	946.9	946.9
5°	1029.5	1028.9	1030.2	1026.0	1020.2	1018.9	1012.8	1004.8	996.4	987.1	985.2
7.5°	1095.8	1094.8	1092.3	1091.5	1087.1	1077.4	1067.6	1057.0	1043.2	1029.6	1022.8
10°	1129.2	1139.8	1133.4	1122.1	1124.4	1109.3	1101.2	1087.4	1075.8	1055.6	1051.1
12.5°	1162.1	1166.3	1164.2	1157.9	1155.0	1144.5	1133.7	1121.6	1100.3	1082.1	1066.3
15°	1162.0	1168.1	1169.8	1167.8	1169.4	1168.7	1163.0	1153.0	1134.4	1114.4	1097.1
17.5°	1076.2	1080.5	1091.0	1098.1	1107.2	1126.2	1135.6	1139.3	1136.4	1125.1	1112.8
20°	980.0	972.9	1002.5	1017.6	1030.5	1062.6	1090.3	1100.9	1117.9	1117.7	1114.4
22.5°	843.7	845.3	873.4	891.3	928.9	961.0	992.6	1032.5	1065.5	1087.3	1100.0
25°	619.9	632.1	660.1	684.5	726.3	786.2	840.5	903.5	962.9	1010.0	1054.6
27.5°	465.5	466.5	488.6	511.3	536.1	585.0	653.5	728.8	813.6	883.5	964.0
30°	398.7	396.7	406.1	419.9	441.2	479.1	530.5	604.5	689.1	794.5	888.4
32.5°	351.4	351.5	358.5	368.8	386.3	411.9	447.2	507.2	587.2	690.9	800.9
35°	305.5	305.1	310.3	317.7	325.0	341.5	365.6	397.1	452.1	548.9	661.4
37.5°	272.5	274.0	276.5	281.1	289.2	298.3	312.9	334.0	373.2	430.4	525.0
40°	254.0	254.7	258.2	262.1	266.9	274.0	285.9	302.9	331.5	377.1	446.3
42.5°	237.0	237.6	240.2	243.7	247.5	254.7	264.5	279.2	302.5	338.0	395.1
45°	212.2	212.2	214.5	216.0	220.2	226.7	234.7	246.9	263.0	289.4	327.4
47.5°	188.9	189.0	190.5	193.2	195.9	200.9	208.8	218.8	230.5	250.9	283.3
50°	175.6	175.9	176.8	179.1	180.7	185.2	191.3	200.0	212.2	228.0	254.9
52.5°	164.7	164.5	165.7	166.8	167.8	171.1	175.6	183.3	194.2	207.9	230.3
55°	147.2	145.9	147.9	149.5	150.5	151.8	154.3	159.2	168.5	180.0	196.7
57.5°	125.4	124.8	126.2	127.7	130.7	134.2	136.4	139.5	144.3	152.6	169.2
60°	107.4	107.4	110.3	111.2	114.8	119.2	123.8	126.4	131.2	136.6	148.9
62.5°	91.4	91.7	93.1	94.0	96.0	101.5	107.9	113.5	118.0	123.3	131.4
65°	76.5	77.1	77.1	77.8	79.1	80.4	82.9	87.5	95.5	102.9	109.0
67.5°	64.9	65.2	65.3	66.0	66.3	67.7	68.7	70.8	72.6	79.6	87.2
70°	57.3	58.2	57.9	58.5	58.8	59.5	60.8	61.7	64.7	66.2	70.8
72.5°	50.0	50.7	50.7	51.1	51.9	52.0	53.0	54.0	55.9	57.3	59.7
75°	40.6	40.2	40.6	41.2	41.5	41.8	41.8	43.0	44.1	45.4	46.9
77.5°	31.3	31.6	31.5	31.6	31.6	32.2	32.1	32.7	33.7	34.4	35.1
80°	25.1	25.4	25.1	25.4	25.7	26.0	25.7	26.0	27.0	27.6	27.6
82.5°	19.5	19.5	19.7	19.7	19.8	19.9	20.3	20.4	21.1	20.9	21.2
85°	11.5	11.3	11.3	11.3	11.5	11.9	11.5	11.5	11.9	11.9	11.9
87.5°	10.7	10.9	10.9	10.9	10.9	10.8	10.3	11.0	10.9	11.5	10.9
90°	33.0	33.0	33.0	33.0	33.0	32.0	30.0	32.0	33.0	34.0	33.0
92.5°	55.4	57.0	56.2	59.4	60.2	66.4	74.8	87.2	109.9	130.0	128.2
95°	114.0	113.0	116.1	124.0	137.0	159.0	201.0	262.1	343.1	392.1	347.1
97.5°	224.5	232.8	247.5	272.1	319.9	392.1	500.3	611.5	702.1	669.3	504.1
100°	358.1	376.1	405.1	448.1	531.1	652.1	789.2	913.2	934.2	790.1	544.1
102.5°	630.2	654.5	690.8	764.1	854.4	982.6	1082.8	1110.9	1020.6	794.2	528.9
105°	1127.2	1141.3	1184.2	1246.2	1308.3	1341.3	1328.3	1215.2	1007.2	741.1	499.1
107.5°	1439.9	1458.4	1467.1	1470.5	1462.7	1414.3	1310.3	1140.1	919.4	684.3	484.3
110°	1534.3	1535.3	1526.3	1507.3	1464.3	1382.2	1254.2	1075.2	864.2	657.1	481.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1532.7	1527.3	1510.3	1478.5	1418.7	1324.6	1187.8	1016.0	825.8	639.6	481.9
115°	1483.3	1474.3	1448.3	1402.3	1331.3	1228.2	1097.3	943.2	778.2	620.1	486.1
117.5°	1395.1	1387.5	1360.0	1311.5	1239.1	1142.5	1023.6	888.4	748.1	610.7	493.3
120°	1338.3	1328.3	1299.2	1252.2	1182.2	1091.2	985.2	861.2	732.1	605.1	498.1
122.5°	1279.0	1270.7	1244.8	1198.6	1135.8	1053.6	953.2	839.6	718.5	601.9	503.7
125°	1203.2	1195.2	1170.3	1132.2	1074.2	999.2	911.2	808.1	699.1	596.2	512.1
127.5°	1136.9	1130.4	1108.8	1073.2	1022.6	953.4	870.4	777.1	681.1	592.7	520.7
130°	1099.2	1091.2	1071.3	1037.2	988.2	922.2	843.2	757.2	669.2	591.1	527.1
132.5°	1060.0	1052.8	1034.4	1000.4	952.2	890.2	817.6	738.0	659.5	590.3	533.5
135°	997.2	993.2	975.2	942.2	899.1	843.2	777.1	711.1	646.1	589.1	541.1
137.5°	935.6	929.6	913.8	885.4	846.2	797.4	744.9	689.7	636.7	588.9	547.9
140°	893.2	887.2	872.2	846.2	814.2	770.2	724.2	676.1	631.1	588.1	551.1
142.5°	850.8	849.5	836.2	812.5	782.1	745.4	705.8	665.0	625.5	588.1	553.5
145°	796.2	793.2	783.2	766.1	742.2	713.2	682.2	649.1	618.1	586.1	556.1
147.5°	750.4	748.6	741.8	728.1	708.3	687.2	663.0	637.0	610.5	582.6	556.9
150°	723.2	722.1	716.2	704.1	689.1	671.1	650.1	628.1	604.1	580.1	556.1
152.5°	699.9	699.7	695.3	684.9	673.1	657.5	639.7	619.3	598.5	576.1	554.5
155°	669.2	671.1	667.1	660.1	649.1	638.1	623.1	607.1	588.1	569.1	552.1
157.5°	642.9	642.9	641.1	635.3	627.5	618.9	606.3	592.9	578.3	561.9	547.5
160°	626.1	626.1	625.1	620.1	613.1	606.1	595.1	584.1	571.1	557.2	545.1
162.5°	610.1	610.9	609.9	606.5	599.5	594.1	584.7	575.3	564.7	553.1	542.7
165°	587.1	588.1	588.1	584.1	580.1	576.1	569.1	562.1	554.1	545.1	538.1
167.5°	565.9	567.1	567.3	565.1	563.4	559.7	554.9	549.5	543.7	538.1	533.5
170°	553.1	555.1	556.1	553.1	552.1	550.1	546.1	543.1	538.1	534.1	531.1
172.5°	542.7	543.9	544.9	543.5	542.5	541.3	538.1	535.9	532.5	529.3	527.9
175°	529.1	531.1	532.1	531.1	531.1	530.1	529.1	528.1	525.1	524.1	523.1
177.5°	520.9	522.5	523.3	523.3	523.3	523.3	522.5	522.5	520.9	520.1	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	947.4	945.5	943.7	939.0	936.7	931.5	930.7	930.5	923.9	917.4	915.6
5°	980.0	974.9	967.2	958.1	948.8	939.2	932.7	927.6	914.7	902.5	895.4
7.5°	1012.8	1001.8	988.4	971.4	957.2	941.2	929.4	918.8	900.5	883.0	871.2
10°	1037.2	1019.3	1001.6	978.1	959.8	941.8	925.1	910.6	890.0	866.9	850.4
12.5°	1052.4	1032.6	1008.2	985.3	961.6	938.7	916.3	897.7	873.6	849.6	830.1
15°	1073.0	1051.7	1022.2	989.4	958.8	928.9	903.2	880.0	848.5	819.9	796.1
17.5°	1089.8	1060.5	1028.7	990.8	955.5	917.5	884.3	854.7	819.7	785.1	757.2
20°	1095.1	1066.2	1029.5	991.6	949.8	905.1	869.4	837.2	799.6	762.0	729.9
22.5°	1091.7	1069.3	1028.5	983.1	940.3	893.5	853.3	815.9	774.2	735.8	698.5
25°	1069.1	1061.4	1022.8	973.3	924.4	870.0	823.5	782.6	735.0	693.9	653.3
27.5°	1016.2	1032.9	1008.9	956.1	901.8	843.5	791.2	744.7	695.3	648.9	608.6
30°	965.3	1003.5	993.2	944.3	883.6	826.3	767.5	718.9	666.2	618.6	578.8
32.5°	895.5	958.7	968.8	927.9	865.0	802.1	740.5	692.2	637.1	586.9	548.1
35°	784.5	879.1	922.5	896.4	833.4	765.6	701.9	645.7	590.3	540.8	502.2
37.5°	652.1	780.8	853.3	855.1	797.2	726.7	657.4	601.5	544.8	496.3	454.5
40°	566.2	705.8	800.0	820.9	772.0	695.8	625.7	568.8	513.5	465.9	418.0
42.5°	489.0	628.1	743.9	780.2	741.4	665.7	595.4	535.9	482.1	437.0	388.1
45°	395.5	517.0	644.6	709.6	688.1	617.9	543.7	487.2	436.6	397.7	350.8
47.5°	333.6	419.3	542.8	630.7	630.3	566.3	493.3	439.0	392.2	355.8	317.7
50°	298.3	373.0	477.5	577.1	585.5	531.8	462.4	408.6	365.0	326.7	296.1
52.5°	266.7	328.2	422.1	517.7	541.5	495.0	427.7	378.1	335.6	300.4	274.2
55°	225.4	272.9	344.4	433.8	469.8	437.0	377.1	330.9	296.4	266.9	244.4
57.5°	190.6	226.4	283.6	355.6	397.5	376.9	327.6	290.0	260.5	233.8	216.0
60°	168.8	198.0	246.6	306.8	353.0	338.5	296.4	261.4	236.3	213.2	196.5
62.5°	148.3	173.4	215.0	263.8	306.3	300.2	265.9	236.4	214.5	193.4	179.3
65°	119.2	137.6	170.0	208.4	242.5	245.3	220.6	200.6	181.0	164.3	151.8
67.5°	95.0	106.9	129.8	162.0	187.6	196.7	181.6	166.3	150.8	137.8	127.0
70°	80.1	89.7	106.4	132.5	155.9	165.6	156.9	145.0	131.5	120.9	111.6
72.5°	64.9	74.3	86.6	105.7	125.9	136.3	133.3	124.7	113.7	105.0	96.2
75°	48.9	51.7	60.1	73.0	88.8	97.7	100.0	95.5	86.8	80.1	74.9
77.5°	36.2	37.9	41.8	48.6	58.9	66.9	70.3	69.7	63.7	59.8	55.0
80°	28.9	29.9	31.9	34.7	42.4	50.5	52.7	52.7	48.6	46.9	42.1
82.5°	22.0	22.7	23.8	25.5	29.1	36.1	38.6	39.1	36.4	34.4	30.6
85°	12.6	12.2	12.8	13.9	14.5	16.4	20.2	20.9	20.2	17.7	16.7
87.5°	9.8	8.6	7.7	6.8	6.6	6.5	7.0	7.7	7.2	7.2	7.1
90°	27.0	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.8	68.0	45.4	36.0	29.2	24.8	17.6	12.2	17.6	24.8	29.2
95°	231.0	144.0	98.0	74.0	58.0	49.0	39.0	35.0	39.0	49.0	58.0
97.5°	311.3	190.0	132.2	105.0	86.6	73.0	62.4	57.0	62.4	73.0	86.6
100°	328.0	206.0	153.0	125.0	105.0	89.0	80.0	77.0	80.0	89.0	105.0
102.5°	328.9	220.4	171.4	143.4	122.6	106.6	97.6	95.4	97.6	106.6	122.6
105°	334.1	245.0	198.0	170.0	148.0	133.0	126.1	122.0	126.1	133.0	148.0
107.5°	347.8	270.3	224.6	196.5	174.6	160.8	154.0	150.8	154.0	160.8	174.6
110°	359.0	287.1	243.1	214.0	193.0	180.0	174.0	170.0	174.0	180.0	193.0





TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.1	303.1	260.6	230.8	210.6	198.5	191.7	187.6	191.7	198.5	210.6
115°	389.1	328.0	285.1	258.0	238.1	226.0	220.1	215.1	220.1	226.0	238.1
117.5°	408.3	351.0	311.3	283.3	264.1	253.5	247.5	243.5	247.5	253.5	264.1
120°	421.1	367.0	328.0	300.1	280.1	271.0	265.0	261.1	265.0	271.0	280.1
122.5°	432.3	382.3	345.7	316.8	296.9	287.1	281.0	277.8	281.0	287.1	296.9
125°	450.1	405.1	369.1	341.0	321.1	309.1	303.1	300.1	303.1	309.1	321.1
127.5°	466.7	426.3	391.2	362.5	343.3	330.1	321.7	317.6	321.7	330.1	343.3
130°	477.1	439.1	404.1	376.1	356.1	342.1	332.1	328.0	332.1	342.1	356.1
132.5°	487.5	450.3	416.9	388.9	368.1	353.3	342.5	337.7	342.5	353.3	368.1
135°	501.1	466.1	434.1	406.0	383.1	368.1	356.1	352.1	356.1	368.1	383.1
137.5°	511.5	478.9	447.3	421.3	398.5	382.5	370.5	365.7	370.5	382.5	398.5
140°	517.1	486.1	456.1	430.1	408.1	392.1	380.0	376.1	380.0	392.1	408.1
142.5°	521.9	491.7	462.5	438.1	416.9	400.9	389.7	386.5	389.7	400.9	416.9
145°	528.1	500.1	473.1	451.1	431.1	416.1	406.0	402.1	406.0	416.1	431.1
147.5°	531.5	506.9	481.5	461.9	445.3	431.4	421.9	418.9	421.9	431.4	445.3
150°	533.1	510.1	487.1	469.1	454.1	441.1	433.1	430.1	433.1	441.1	454.1
152.5°	533.9	513.3	492.7	476.3	462.1	450.6	442.7	441.3	442.7	450.6	462.1
155°	535.1	518.1	501.1	486.1	475.1	464.1	458.1	457.1	458.1	464.1	475.1
157.5°	535.1	521.5	507.1	494.5	485.7	476.1	471.3	470.3	471.3	476.1	485.7
160°	535.1	523.1	511.1	500.1	492.1	484.1	480.1	479.1	480.1	484.1	492.1
162.5°	534.3	523.9	513.5	504.9	497.7	491.3	487.3	487.9	487.3	491.3	497.7
165°	532.1	525.1	516.1	510.1	505.1	499.1	497.1	498.1	497.1	499.1	505.1
167.5°	530.7	524.9	518.3	514.5	510.9	507.1	505.3	506.5	505.3	507.1	510.9
170°	529.1	524.1	519.1	516.1	514.1	511.1	510.1	512.1	510.1	511.1	514.1
172.5°	526.7	523.3	519.9	517.7	516.5	513.5	514.1	515.3	514.1	513.5	516.5
175°	524.1	522.1	520.1	519.1	519.1	517.1	518.1	519.1	518.1	517.1	519.1
177.5°	522.5	520.9	520.1	520.1	520.1	518.5	519.3	520.9	519.3	518.5	520.1
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	912.2	910.4	907.1	902.0	898.9	893.5	889.8	891.9	892.4	891.9	891.4
5°	887.8	881.0	871.7	862.6	854.3	845.3	840.2	837.9	833.4	830.9	829.6
7.5°	858.1	846.4	833.3	817.6	804.3	790.3	783.2	779.6	770.4	765.4	761.0
10°	835.9	817.6	804.4	783.9	771.4	753.0	740.5	740.8	728.2	721.2	716.0
12.5°	811.6	791.4	769.5	751.0	733.6	718.8	703.7	697.6	684.2	677.4	663.6
15°	771.0	747.5	724.4	699.3	681.7	658.8	637.0	610.3	588.8	570.1	564.9
17.5°	726.8	697.8	674.5	645.1	614.8	576.4	551.0	535.5	522.5	512.7	505.4
20°	696.5	666.8	642.1	597.7	556.9	530.8	512.2	500.3	486.8	476.2	470.4
22.5°	664.5	633.7	599.9	550.4	518.6	497.7	481.0	467.4	458.2	450.0	444.7
25°	619.2	585.5	529.9	495.8	470.1	448.2	436.6	428.3	418.6	407.3	402.3
27.5°	571.4	517.7	477.8	452.5	427.9	413.7	403.3	390.8	382.2	377.1	371.8
30°	535.6	482.0	450.8	423.1	405.8	390.0	377.8	370.7	362.4	353.7	350.2
32.5°	495.8	452.9	423.0	400.0	382.4	368.9	359.3	347.8	341.8	336.5	329.1
35°	446.3	413.8	386.5	367.8	351.1	340.2	328.9	322.2	311.3	306.8	303.8
37.5°	404.3	376.2	355.8	336.1	322.9	310.8	303.9	293.2	288.4	282.1	276.0
40°	380.6	353.0	333.5	317.4	302.6	293.5	284.9	276.2	269.1	266.2	258.8
42.5°	356.5	334.0	314.4	296.8	286.9	277.3	266.4	260.0	252.6	248.0	243.4
45°	323.1	303.2	286.5	272.0	261.1	251.2	244.0	233.4	229.3	219.9	216.0
47.5°	293.8	275.3	259.3	245.6	234.9	228.4	218.1	209.7	203.1	197.3	192.4
50°	272.9	257.5	242.1	229.9	220.2	210.9	200.4	196.1	185.8	183.0	180.0
52.5°	253.9	239.3	225.2	213.2	203.5	194.5	185.1	179.7	172.7	169.8	167.7
55°	227.3	213.2	199.7	189.1	179.4	170.0	164.3	157.6	154.3	152.1	149.5
57.5°	200.5	187.9	177.5	166.8	157.0	149.6	142.9	138.9	135.5	132.6	129.5
60°	183.6	171.3	162.0	152.1	142.2	136.0	130.9	126.1	122.2	117.7	116.4
62.5°	165.6	154.9	146.4	136.6	127.9	122.3	117.5	113.0	108.3	101.8	100.0
65°	140.9	132.5	123.5	115.5	107.7	102.3	95.1	90.1	88.1	87.5	87.1
67.5°	118.5	110.6	102.8	94.6	87.6	82.5	78.9	78.1	76.8	76.4	75.5
70°	103.5	96.2	88.4	80.7	74.0	73.0	71.7	70.4	68.8	68.2	67.5
72.5°	90.1	82.5	74.8	68.6	65.7	64.5	63.2	61.9	60.9	60.2	59.8
75°	69.1	62.1	56.9	54.7	53.0	52.1	50.2	49.2	48.6	47.6	47.3
77.5°	49.8	45.8	43.4	42.0	40.3	39.3	38.2	37.2	36.5	36.3	35.8
80°	38.0	36.0	34.4	32.5	31.9	30.6	30.2	29.3	29.6	28.6	28.6
82.5°	29.4	27.0	25.7	24.8	24.1	23.1	22.7	22.3	22.4	21.7	21.7
85°	15.2	14.5	13.9	13.2	13.2	12.2	12.6	12.2	12.2	11.5	11.3
87.5°	7.3	7.7	8.1	9.6	10.7	10.7	10.4	10.0	9.6	10.0	10.0
90°	12.0	15.0	20.0	27.0	33.0	34.0	33.0	32.0	30.0	32.0	33.0
92.5°	36.0	45.4	68.0	99.8	128.2	130.0	109.9	87.2	74.8	66.4	60.2
95°	74.0	98.0	144.0	231.0	347.1	392.1	343.1	262.1	201.0	159.0	137.0
97.5°	105.0	132.2	190.0	311.3	504.1	669.3	702.1	611.5	500.3	392.1	319.9
100°	125.0	153.0	206.0	328.0	544.1	790.1	934.2	913.2	789.2	652.1	531.1
102.5°	143.4	171.4	220.4	328.9	528.9	794.2	1020.6	1110.9	1082.8	982.6	854.4
105°	170.0	198.0	245.0	334.1	499.1	741.1	1007.2	1215.2	1328.3	1341.3	1308.3
107.5°	196.5	224.6	270.3	347.8	484.3	684.3	919.4	1140.1	1310.3	1414.3	1462.7
110°	214.0	243.1	287.1	359.0	481.1	657.1	864.2	1075.2	1254.2	1382.2	1464.3



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.8	260.6	303.1	371.1	481.9	639.6	825.8	1016.0	1187.8	1324.6	1418.7
115°	258.0	285.1	328.0	389.1	486.1	620.1	778.2	943.2	1097.3	1228.2	1331.3
117.5°	283.3	311.3	351.0	408.3	493.3	610.7	748.1	888.4	1023.6	1142.5	1239.1
120°	300.1	328.0	367.0	421.1	498.1	605.1	732.1	861.2	985.2	1091.2	1182.2
122.5°	316.8	345.7	382.3	432.3	503.7	601.9	718.5	839.6	953.2	1053.6	1135.8
125°	341.0	369.1	405.1	450.1	512.1	596.2	699.1	808.1	911.2	999.2	1074.2
127.5°	362.5	391.2	426.3	466.7	520.7	592.7	681.1	777.1	870.4	953.4	1022.6
130°	376.1	404.1	439.1	477.1	527.1	591.1	669.2	757.2	843.2	922.2	988.2
132.5°	388.9	416.9	450.3	487.5	533.5	590.3	659.5	738.0	817.6	890.2	952.2
135°	406.0	434.1	466.1	501.1	541.1	589.1	646.1	711.1	777.1	843.2	899.1
137.5°	421.3	447.3	478.9	511.5	547.9	588.9	636.7	689.7	744.9	797.4	846.2
140°	430.1	456.1	486.1	517.1	551.1	588.1	631.1	676.1	724.2	770.2	814.2
142.5°	438.1	462.5	491.7	521.9	553.5	588.1	625.5	665.0	705.8	745.4	782.1
145°	451.1	473.1	500.1	528.1	556.1	586.1	618.1	649.1	682.2	713.2	742.2
147.5°	461.9	481.5	506.9	531.5	556.9	582.6	610.5	637.0	663.0	687.2	708.3
150°	469.1	487.1	510.1	533.1	556.1	580.1	604.1	628.1	650.1	671.1	689.1
152.5°	476.3	492.7	513.3	533.9	554.5	576.1	598.5	619.3	639.7	657.5	673.1
155°	486.1	501.1	518.1	535.1	552.1	569.1	588.1	607.1	623.1	638.1	649.1
157.5°	494.5	507.1	521.5	535.1	547.5	561.9	578.3	592.9	606.3	618.9	627.5
160°	500.1	511.1	523.1	535.1	545.1	557.2	571.1	584.1	595.1	606.1	613.1
162.5°	504.9	513.5	523.9	534.3	542.7	553.1	564.7	575.3	584.7	594.1	599.5
165°	510.1	516.1	525.1	532.1	538.1	545.1	554.1	562.1	569.1	576.1	580.1
167.5°	514.5	518.3	524.9	530.7	533.5	538.1	543.7	549.5	554.9	559.7	563.4
170°	516.1	519.1	524.1	529.1	531.1	534.1	538.1	543.1	546.1	550.1	552.1
172.5°	517.7	519.9	523.3	526.7	527.9	529.3	532.5	535.9	538.1	541.3	542.5
175°	519.1	520.1	522.1	524.1	523.1	524.1	525.1	528.1	529.1	530.1	531.1
177.5°	520.1	520.1	520.9	522.5	520.9	520.1	520.9	522.5	522.5	523.3	523.3
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	888.6	889.1	888.3	888.8	888.3	889.1	888.6	891.4	891.9	892.4	891.9
5°	827.9	824.1	823.5	822.5	823.5	824.1	827.9	829.6	830.9	833.4	837.9
7.5°	755.5	754.9	753.4	751.1	753.4	754.9	755.5	761.0	765.4	770.4	779.6
10°	708.9	707.4	707.1	704.8	707.1	707.4	708.9	716.0	721.2	728.2	740.8
12.5°	654.4	644.1	643.0	637.4	643.0	644.1	654.4	663.6	677.4	684.2	697.6
15°	557.2	555.3	548.9	544.7	548.9	555.3	557.2	564.9	570.1	588.8	610.3
17.5°	501.6	495.3	493.4	492.5	493.4	495.3	501.6	505.4	512.7	522.5	535.5
20°	465.9	460.1	459.2	458.5	459.2	460.1	465.9	470.4	476.2	486.8	500.3
22.5°	441.2	435.1	432.7	430.8	432.7	435.1	441.2	444.7	450.0	458.2	467.4
25°	399.0	396.7	395.5	394.9	395.5	396.7	399.0	402.3	407.3	418.6	428.3
27.5°	366.0	361.1	360.1	358.4	360.1	361.1	366.0	371.8	377.1	382.2	390.8
30°	347.2	345.6	343.4	341.5	343.4	345.6	347.2	350.2	353.7	362.4	370.7
32.5°	325.1	323.8	321.8	320.9	321.8	323.8	325.1	329.1	336.5	341.8	347.8
35°	300.7	296.1	294.2	291.3	294.2	296.1	300.7	303.8	306.8	311.3	322.2
37.5°	274.7	272.3	269.7	270.6	269.7	272.3	274.7	276.0	282.1	288.4	293.2
40°	254.7	253.0	252.4	252.1	252.4	253.0	254.7	258.8	266.2	269.1	276.2
42.5°	238.7	234.3	232.6	232.6	232.6	234.3	238.7	243.4	248.0	252.6	260.0
45°	214.5	210.3	207.4	207.7	207.4	210.3	214.5	216.0	219.9	229.3	233.4
47.5°	189.7	189.5	187.7	188.3	187.7	189.5	189.7	192.4	197.3	203.1	209.7
50°	177.8	175.9	174.6	174.9	174.6	175.9	177.8	180.0	183.0	185.8	196.1
52.5°	166.5	164.8	163.8	165.1	163.8	164.8	166.5	167.7	169.8	172.7	179.7
55°	147.9	145.9	145.7	145.3	145.7	145.9	147.9	149.5	152.1	154.3	157.6
57.5°	127.2	125.9	123.9	123.1	123.9	125.9	127.2	129.5	132.6	135.5	138.9
60°	112.2	109.6	106.4	106.1	106.4	109.6	112.2	116.4	117.7	122.2	126.1
62.5°	98.6	98.1	97.5	97.4	97.5	98.1	98.6	100.0	101.8	108.3	113.0
65°	86.5	86.2	86.5	86.8	86.5	86.2	86.5	87.1	87.5	88.1	90.1
67.5°	75.3	74.8	74.2	74.5	74.2	74.8	75.3	75.5	76.4	76.8	78.1
70°	66.9	66.6	66.2	66.2	66.2	66.6	66.9	67.5	68.2	68.8	70.4
72.5°	58.6	58.5	58.3	58.0	58.3	58.5	58.6	59.8	60.2	60.9	61.9
75°	46.9	46.3	46.3	46.3	46.3	46.3	46.9	47.3	47.6	48.6	49.2
77.5°	35.7	35.5	35.1	34.9	35.1	35.5	35.7	35.8	36.3	36.5	37.2
80°	28.3	28.0	27.6	27.6	27.6	28.0	28.3	28.6	28.6	29.6	29.3
82.5°	21.6	21.3	21.2	20.9	21.2	21.3	21.6	21.7	21.7	22.4	22.3
85°	11.5	11.9	11.5	12.2	11.5	11.9	11.5	11.3	11.5	12.2	12.2
87.5°	10.0	9.7	10.0	9.7	10.0	9.7	10.0	10.0	10.0	9.6	10.0
90°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	32.0	30.0	32.0
92.5°	59.4	56.2	57.0	55.4	57.0	56.2	59.4	60.2	66.4	74.8	87.2
95°	124.0	116.1	113.0	114.0	113.0	116.1	124.0	137.0	159.0	201.0	262.1
97.5°	272.1	247.5	232.8	224.5	232.8	247.5	272.1	319.9	392.1	500.3	611.5
100°	448.1	405.1	376.1	358.1	376.1	405.1	448.1	531.1	652.1	789.2	913.2
102.5°	764.1	690.8	654.5	630.2	654.5	690.8	764.1	854.4	982.6	1082.8	1110.9
105°	1246.2	1184.2	1141.3	1127.2	1141.3	1184.2	1246.2	1308.3	1341.3	1328.3	1215.2
107.5°	1470.5	1467.1	1458.4	1439.9	1458.4	1467.1	1470.5	1462.7	1414.3	1310.3	1140.1
110°	1507.3	1526.3	1535.3	1534.3	1535.3	1526.3	1507.3	1464.3	1382.2	1254.2	1075.2



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1478.5	1510.3	1527.3	1532.7	1527.3	1510.3	1478.5	1418.7	1324.6	1187.8	1016.0
115°	1402.3	1448.3	1474.3	1483.3	1474.3	1448.3	1402.3	1331.3	1228.2	1097.3	943.2
117.5°	1311.5	1360.0	1387.5	1395.1	1387.5	1360.0	1311.5	1239.1	1142.5	1023.6	888.4
120°	1252.2	1299.2	1328.3	1338.3	1328.3	1299.2	1252.2	1182.2	1091.2	985.2	861.2
122.5°	1198.6	1244.8	1270.7	1279.0	1270.7	1244.8	1198.6	1135.8	1053.6	953.2	839.6
125°	1132.2	1170.3	1195.2	1203.2	1195.2	1170.3	1132.2	1074.2	999.2	911.2	808.1
127.5°	1073.2	1108.8	1130.4	1136.9	1130.4	1108.8	1073.2	1022.6	953.4	870.4	777.1
130°	1037.2	1071.3	1091.2	1099.2	1091.2	1071.3	1037.2	988.2	922.2	843.2	757.2
132.5°	1000.4	1034.4	1052.8	1060.0	1052.8	1034.4	1000.4	952.2	890.2	817.6	738.0
135°	942.2	975.2	993.2	997.2	993.2	975.2	942.2	899.1	843.2	777.1	711.1
137.5°	885.4	913.8	929.6	935.6	929.6	913.8	885.4	846.2	797.4	744.9	689.7
140°	846.2	872.2	887.2	893.2	887.2	872.2	846.2	814.2	770.2	724.2	676.1
142.5°	812.5	836.2	849.5	850.8	849.5	836.2	812.5	782.1	745.4	705.8	665.0
145°	766.1	783.2	793.2	796.2	793.2	783.2	766.1	742.2	713.2	682.2	649.1
147.5°	728.1	741.8	748.6	750.4	748.6	741.8	728.1	708.3	687.2	663.0	637.0
150°	704.1	716.2	722.1	723.2	722.1	716.2	704.1	689.1	671.1	650.1	628.1
152.5°	684.9	695.3	699.7	699.9	699.7	695.3	684.9	673.1	657.5	639.7	619.3
155°	660.1	667.1	671.1	669.2	671.1	667.1	660.1	649.1	638.1	623.1	607.1
157.5°	635.3	641.1	642.9	642.9	642.9	641.1	635.3	627.5	618.9	606.3	592.9
160°	620.1	625.1	626.1	626.1	626.1	625.1	620.1	613.1	606.1	595.1	584.1
162.5°	606.5	609.9	610.9	610.1	610.9	609.9	606.5	599.5	594.1	584.7	575.3
165°	584.1	588.1	588.1	587.1	588.1	588.1	584.1	580.1	576.1	569.1	562.1
167.5°	565.1	567.3	567.1	565.9	567.1	567.3	565.1	563.4	559.7	554.9	549.5
170°	553.1	556.1	555.1	553.1	555.1	556.1	553.1	552.1	550.1	546.1	543.1
172.5°	543.5	544.9	543.9	542.7	543.9	544.9	543.5	542.5	541.3	538.1	535.9
175°	531.1	532.1	531.1	529.1	531.1	532.1	531.1	531.1	530.1	529.1	528.1
177.5°	523.3	523.3	522.5	520.9	522.5	523.3	523.3	523.3	523.3	522.5	522.5
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	889.8	893.5	898.9	902.0	907.1	910.4	912.2	915.6	917.4	923.9	930.5
5°	840.2	845.3	854.3	862.6	871.7	881.0	887.8	895.4	902.5	914.7	927.6
7.5°	783.2	790.3	804.3	817.6	833.3	846.4	858.1	871.2	883.0	900.5	918.8
10°	740.5	753.0	771.4	783.9	804.4	817.6	835.9	850.4	866.9	890.0	910.6
12.5°	703.7	718.8	733.6	751.0	769.5	791.4	811.6	830.1	849.6	873.6	897.7
15°	637.0	658.8	681.7	699.3	724.4	747.5	771.0	796.1	819.9	848.5	880.0
17.5°	551.0	576.4	614.8	645.1	674.5	697.8	726.8	757.2	785.1	819.7	854.7
20°	512.2	530.8	556.9	597.7	642.1	666.8	696.5	729.9	762.0	799.6	837.2
22.5°	481.0	497.7	518.6	550.4	599.9	633.7	664.5	698.5	735.8	774.2	815.9
25°	436.6	448.2	470.1	495.8	529.9	585.5	619.2	653.3	693.9	735.0	782.6
27.5°	403.3	413.7	427.9	452.5	477.8	517.7	571.4	608.6	648.9	695.3	744.7
30°	377.8	390.0	405.8	423.1	450.8	482.0	535.6	578.8	618.6	666.2	718.9
32.5°	359.3	368.9	382.4	400.0	423.0	452.9	495.8	548.1	586.9	637.1	692.2
35°	328.9	340.2	351.1	367.8	386.5	413.8	446.3	502.2	540.8	590.3	645.7
37.5°	303.9	310.8	322.9	336.1	355.8	376.2	404.3	454.5	496.3	544.8	601.5
40°	284.9	293.5	302.6	317.4	333.5	353.0	380.6	418.0	465.9	513.5	568.8
42.5°	266.4	277.3	286.9	296.8	314.4	334.0	356.5	388.1	437.0	482.1	535.9
45°	244.0	251.2	261.1	272.0	286.5	303.2	323.1	350.8	397.7	436.6	487.2
47.5°	218.1	228.4	234.9	245.6	259.3	275.3	293.8	317.7	355.8	392.2	439.0
50°	200.4	210.9	220.2	229.9	242.1	257.5	272.9	296.1	326.7	365.0	408.6
52.5°	185.1	194.5	203.5	213.2	225.2	239.3	253.9	274.2	300.4	335.6	378.1
55°	164.3	170.0	179.4	189.1	199.7	213.2	227.3	244.4	266.9	296.4	330.9
57.5°	142.9	149.6	157.0	166.8	177.5	187.9	200.5	216.0	233.8	260.5	290.0
60°	130.9	136.0	142.2	152.1	162.0	171.3	183.6	196.5	213.2	236.3	261.4
62.5°	117.5	122.3	127.9	136.6	146.4	154.9	165.6	179.3	193.4	214.5	236.4
65°	95.1	102.3	107.7	115.5	123.5	132.5	140.9	151.8	164.3	181.0	200.6
67.5°	78.9	82.5	87.6	94.6	102.8	110.6	118.5	127.0	137.8	150.8	166.3
70°	71.7	73.0	74.0	80.7	88.4	96.2	103.5	111.6	120.9	131.5	145.0
72.5°	63.2	64.5	65.7	68.6	74.8	82.5	90.1	96.2	105.0	113.7	124.7
75°	50.2	52.1	53.0	54.7	56.9	62.1	69.1	74.9	80.1	86.8	95.5
77.5°	38.2	39.3	40.3	42.0	43.4	45.8	49.8	55.0	59.8	63.7	69.7
80°	30.2	30.6	31.9	32.5	34.4	36.0	38.0	42.1	46.9	48.6	52.7
82.5°	22.7	23.1	24.1	24.8	25.7	27.0	29.4	30.6	34.4	36.4	39.1
85°	12.6	12.2	13.2	13.2	13.9	14.5	15.2	16.7	17.7	20.2	20.9
87.5°	10.4	10.7	10.7	9.6	8.1	7.7	7.3	7.1	7.2	7.2	7.7
90°	33.0	34.0	33.0	27.0	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.9	130.0	128.2	99.8	68.0	45.4	36.0	29.2	24.8	17.6	12.2
95°	343.1	392.1	347.1	231.0	144.0	98.0	74.0	58.0	49.0	39.0	35.0
97.5°	702.1	669.3	504.1	311.3	190.0	132.2	105.0	86.6	73.0	62.4	57.0
100°	934.2	790.1	544.1	328.0	206.0	153.0	125.0	105.0	89.0	80.0	77.0
102.5°	1020.6	794.2	528.9	328.9	220.4	171.4	143.4	122.6	106.6	97.6	95.4
105°	1007.2	741.1	499.1	334.1	245.0	198.0	170.0	148.0	133.0	126.1	122.0
107.5°	919.4	684.3	484.3	347.8	270.3	224.6	196.5	174.6	160.8	154.0	150.8
110°	864.2	657.1	481.1	359.0	287.1	243.1	214.0	193.0	180.0	174.0	170.0



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	825.8	639.6	481.9	371.1	303.1	260.6	230.8	210.6	198.5	191.7	187.6
115°	778.2	620.1	486.1	389.1	328.0	285.1	258.0	238.1	226.0	220.1	215.1
117.5°	748.1	610.7	493.3	408.3	351.0	311.3	283.3	264.1	253.5	247.5	243.5
120°	732.1	605.1	498.1	421.1	367.0	328.0	300.1	280.1	271.0	265.0	261.1
122.5°	718.5	601.9	503.7	432.3	382.3	345.7	316.8	296.9	287.1	281.0	277.8
125°	699.1	596.2	512.1	450.1	405.1	369.1	341.0	321.1	309.1	303.1	300.1
127.5°	681.1	592.7	520.7	466.7	426.3	391.2	362.5	343.3	330.1	321.7	317.6
130°	669.2	591.1	527.1	477.1	439.1	404.1	376.1	356.1	342.1	332.1	328.0
132.5°	659.5	590.3	533.5	487.5	450.3	416.9	388.9	368.1	353.3	342.5	337.7
135°	646.1	589.1	541.1	501.1	466.1	434.1	406.0	383.1	368.1	356.1	352.1
137.5°	636.7	588.9	547.9	511.5	478.9	447.3	421.3	398.5	382.5	370.5	365.7
140°	631.1	588.1	551.1	517.1	486.1	456.1	430.1	408.1	392.1	380.0	376.1
142.5°	625.5	588.1	553.5	521.9	491.7	462.5	438.1	416.9	400.9	389.7	386.5
145°	618.1	586.1	556.1	528.1	500.1	473.1	451.1	431.1	416.1	406.0	402.1
147.5°	610.5	582.6	556.9	531.5	506.9	481.5	461.9	445.3	431.4	421.9	418.9
150°	604.1	580.1	556.1	533.1	510.1	487.1	469.1	454.1	441.1	433.1	430.1
152.5°	598.5	576.1	554.5	533.9	513.3	492.7	476.3	462.1	450.6	442.7	441.3
155°	588.1	569.1	552.1	535.1	518.1	501.1	486.1	475.1	464.1	458.1	457.1
157.5°	578.3	561.9	547.5	535.1	521.5	507.1	494.5	485.7	476.1	471.3	470.3
160°	571.1	557.2	545.1	535.1	523.1	511.1	500.1	492.1	484.1	480.1	479.1
162.5°	564.7	553.1	542.7	534.3	523.9	513.5	504.9	497.7	491.3	487.3	487.9
165°	554.1	545.1	538.1	532.1	525.1	516.1	510.1	505.1	499.1	497.1	498.1
167.5°	543.7	538.1	533.5	530.7	524.9	518.3	514.5	510.9	507.1	505.3	506.5
170°	538.1	534.1	531.1	529.1	524.1	519.1	516.1	514.1	511.1	510.1	512.1
172.5°	532.5	529.3	527.9	526.7	523.3	519.9	517.7	516.5	513.5	514.1	515.3
175°	525.1	524.1	523.1	524.1	522.1	520.1	519.1	519.1	517.1	518.1	519.1
177.5°	520.9	520.1	520.9	522.5	520.9	520.1	520.1	520.1	518.5	519.3	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	930.7	931.5	936.7	939.0	943.7	945.5	947.4	946.9	946.9	948.0	955.2
5°	932.7	939.2	948.8	958.1	967.2	974.9	980.0	985.2	987.1	996.4	1004.8
7.5°	929.4	941.2	957.2	971.4	988.4	1001.8	1012.8	1022.8	1029.6	1043.2	1057.0
10°	925.1	941.8	959.8	978.1	1001.6	1019.3	1037.2	1051.1	1055.6	1075.8	1087.4
12.5°	916.3	938.7	961.6	985.3	1008.2	1032.6	1052.4	1066.3	1082.1	1100.3	1121.6
15°	903.2	928.9	958.8	989.4	1022.2	1051.7	1073.0	1097.1	1114.4	1134.4	1153.0
17.5°	884.3	917.5	955.5	990.8	1028.7	1060.5	1089.8	1112.8	1125.1	1136.4	1139.3
20°	869.4	905.1	949.8	991.6	1029.5	1066.2	1095.1	1114.4	1117.7	1117.9	1100.9
22.5°	853.3	893.5	940.3	983.1	1028.5	1069.3	1091.7	1100.0	1087.3	1065.5	1032.5
25°	823.5	870.0	924.4	973.3	1022.8	1061.4	1069.1	1054.6	1010.0	962.9	903.5
27.5°	791.2	843.5	901.8	956.1	1008.9	1032.9	1016.2	964.0	883.5	813.6	728.8
30°	767.5	826.3	883.6	944.3	993.2	1003.5	965.3	888.4	794.5	689.1	604.5
32.5°	740.5	802.1	865.0	927.9	968.8	958.7	895.5	800.9	690.9	587.2	507.2
35°	701.9	765.6	833.4	896.4	922.5	879.1	784.5	661.4	548.9	452.1	397.1
37.5°	657.4	726.7	797.2	855.1	853.3	780.8	652.1	525.0	430.4	373.2	334.0
40°	625.7	695.8	772.0	820.9	800.0	705.8	566.2	446.3	377.1	331.5	302.9
42.5°	595.4	665.7	741.4	780.2	743.9	628.1	489.0	395.1	338.0	302.5	279.2
45°	543.7	617.9	688.1	709.6	644.6	517.0	395.5	327.4	289.4	263.0	246.9
47.5°	493.3	566.3	630.3	630.7	542.8	419.3	333.6	283.3	250.9	230.5	218.8
50°	462.4	531.8	585.5	577.1	477.5	373.0	298.3	254.9	228.0	212.2	200.0
52.5°	427.7	495.0	541.5	517.7	422.1	328.2	266.7	230.3	207.9	194.2	183.3
55°	377.1	437.0	469.8	433.8	344.4	272.9	225.4	196.7	180.0	168.5	159.2
57.5°	327.6	376.9	397.5	355.6	283.6	226.4	190.6	169.2	152.6	144.3	139.5
60°	296.4	338.5	353.0	306.8	246.6	198.0	168.8	148.9	136.6	131.2	126.4
62.5°	265.9	300.2	306.3	263.8	215.0	173.4	148.3	131.4	123.3	118.0	113.5
65°	220.6	245.3	242.5	208.4	170.0	137.6	119.2	109.0	102.9	95.5	87.5
67.5°	181.6	196.7	187.6	162.0	129.8	106.9	95.0	87.2	79.6	72.6	70.8
70°	156.9	165.6	155.9	132.5	106.4	89.7	80.1	70.8	66.2	64.7	61.7
72.5°	133.3	136.3	125.9	105.7	86.6	74.3	64.9	59.7	57.3	55.9	54.0
75°	100.0	97.7	88.8	73.0	60.1	51.7	48.9	46.9	45.4	44.1	43.0
77.5°	70.3	66.9	58.9	48.6	41.8	37.9	36.2	35.1	34.4	33.7	32.7
80°	52.7	50.5	42.4	34.7	31.9	29.9	28.9	27.6	27.6	27.0	26.0
82.5°	38.6	36.1	29.1	25.5	23.8	22.7	22.0	21.2	20.9	21.1	20.4
85°	20.2	16.4	14.5	13.9	12.8	12.2	12.6	11.9	11.9	11.9	11.5
87.5°	7.0	6.5	6.6	6.8	7.7	8.6	9.8	10.9	11.5	10.9	11.0
90°	4.0	8.0	10.0	12.0	15.0	20.0	27.0	33.0	34.0	33.0	32.0
92.5°	17.6	24.8	29.2	36.0	45.4	68.0	99.8	128.2	130.0	109.9	87.2
95°	39.0	49.0	58.0	74.0	98.0	144.0	231.0	347.1	392.1	343.1	262.1
97.5°	62.4	73.0	86.6	105.0	132.2	190.0	311.3	504.1	669.3	702.1	611.5
100°	80.0	89.0	105.0	125.0	153.0	206.0	328.0	544.1	790.1	934.2	913.2
102.5°	97.6	106.6	122.6	143.4	171.4	220.4	328.9	528.9	794.2	1020.6	1110.9
105°	126.1	133.0	148.0	170.0	198.0	245.0	334.1	499.1	741.1	1007.2	1215.2
107.5°	154.0	160.8	174.6	196.5	224.6	270.3	347.8	484.3	684.3	919.4	1140.1
110°	174.0	180.0	193.0	214.0	243.1	287.1	359.0	481.1	657.1	864.2	1075.2





TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.7	198.5	210.6	230.8	260.6	303.1	371.1	481.9	639.6	825.8	1016.0
115°	220.1	226.0	238.1	258.0	285.1	328.0	389.1	486.1	620.1	778.2	943.2
117.5°	247.5	253.5	264.1	283.3	311.3	351.0	408.3	493.3	610.7	748.1	888.4
120°	265.0	271.0	280.1	300.1	328.0	367.0	421.1	498.1	605.1	732.1	861.2
122.5°	281.0	287.1	296.9	316.8	345.7	382.3	432.3	503.7	601.9	718.5	839.6
125°	303.1	309.1	321.1	341.0	369.1	405.1	450.1	512.1	596.2	699.1	808.1
127.5°	321.7	330.1	343.3	362.5	391.2	426.3	466.7	520.7	592.7	681.1	777.1
130°	332.1	342.1	356.1	376.1	404.1	439.1	477.1	527.1	591.1	669.2	757.2
132.5°	342.5	353.3	368.1	388.9	416.9	450.3	487.5	533.5	590.3	659.5	738.0
135°	356.1	368.1	383.1	406.0	434.1	466.1	501.1	541.1	589.1	646.1	711.1
137.5°	370.5	382.5	398.5	421.3	447.3	478.9	511.5	547.9	588.9	636.7	689.7
140°	380.0	392.1	408.1	430.1	456.1	486.1	517.1	551.1	588.1	631.1	676.1
142.5°	389.7	400.9	416.9	438.1	462.5	491.7	521.9	553.5	588.1	625.5	665.0
145°	406.0	416.1	431.1	451.1	473.1	500.1	528.1	556.1	586.1	618.1	649.1
147.5°	421.9	431.4	445.3	461.9	481.5	506.9	531.5	556.9	582.6	610.5	637.0
150°	433.1	441.1	454.1	469.1	487.1	510.1	533.1	556.1	580.1	604.1	628.1
152.5°	442.7	450.6	462.1	476.3	492.7	513.3	533.9	554.5	576.1	598.5	619.3
155°	458.1	464.1	475.1	486.1	501.1	518.1	535.1	552.1	569.1	588.1	607.1
157.5°	471.3	476.1	485.7	494.5	507.1	521.5	535.1	547.5	561.9	578.3	592.9
160°	480.1	484.1	492.1	500.1	511.1	523.1	535.1	545.1	557.2	571.1	584.1
162.5°	487.3	491.3	497.7	504.9	513.5	523.9	534.3	542.7	553.1	564.7	575.3
165°	497.1	499.1	505.1	510.1	516.1	525.1	532.1	538.1	545.1	554.1	562.1
167.5°	505.3	507.1	510.9	514.5	518.3	524.9	530.7	533.5	538.1	543.7	549.5
170°	510.1	511.1	514.1	516.1	519.1	524.1	529.1	531.1	534.1	538.1	543.1
172.5°	514.1	513.5	516.5	517.7	519.9	523.3	526.7	527.9	529.3	532.5	535.9
175°	518.1	517.1	519.1	519.1	520.1	522.1	524.1	523.1	524.1	525.1	528.1
177.5°	519.3	518.5	520.1	520.1	520.1	520.9	522.5	520.9	520.1	520.9	522.5
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	957.8	961.1	962.7	962.7	964.5	963.7	962.9
5°	1012.8	1018.9	1020.2	1026.0	1030.2	1028.9	1029.5
7.5°	1067.6	1077.4	1087.1	1091.5	1092.3	1094.8	1095.8
10°	1101.2	1109.3	1124.4	1122.1	1133.4	1139.8	1129.2
12.5°	1133.7	1144.5	1155.0	1157.9	1164.2	1166.3	1162.1
15°	1163.0	1168.7	1169.4	1167.8	1169.8	1168.1	1162.0
17.5°	1135.6	1126.2	1107.2	1098.1	1091.0	1080.5	1076.2
20°	1090.3	1062.6	1030.5	1017.6	1002.5	972.9	980.0
22.5°	992.6	961.0	928.9	891.3	873.4	845.3	843.7
25°	840.5	786.2	726.3	684.5	660.1	632.1	619.9
27.5°	653.5	585.0	536.1	511.3	488.6	466.5	465.5
30°	530.5	479.1	441.2	419.9	406.1	396.7	398.7
32.5°	447.2	411.9	386.3	368.8	358.5	351.5	351.4
35°	365.6	341.5	325.0	317.7	310.3	305.1	305.5
37.5°	312.9	298.3	289.2	281.1	276.5	274.0	272.5
40°	285.9	274.0	266.9	262.1	258.2	254.7	254.0
42.5°	264.5	254.7	247.5	243.7	240.2	237.6	237.0
45°	234.7	226.7	220.2	216.0	214.5	212.2	212.2
47.5°	208.8	200.9	195.9	193.2	190.5	189.0	188.9
50°	191.3	185.2	180.7	179.1	176.8	175.9	175.6
52.5°	175.6	171.1	167.8	166.8	165.7	164.5	164.7
55°	154.3	151.8	150.5	149.5	147.9	145.9	147.2
57.5°	136.4	134.2	130.7	127.7	126.2	124.8	125.4
60°	123.8	119.2	114.8	111.2	110.3	107.4	107.4
62.5°	107.9	101.5	96.0	94.0	93.1	91.7	91.4
65°	82.9	80.4	79.1	77.8	77.1	77.1	76.5
67.5°	68.7	67.7	66.3	66.0	65.3	65.2	64.9
70°	60.8	59.5	58.8	58.5	57.9	58.2	57.3
72.5°	53.0	52.0	51.9	51.1	50.7	50.7	50.0
75°	41.8	41.8	41.5	41.2	40.6	40.2	40.6
77.5°	32.1	32.2	31.6	31.6	31.5	31.6	31.3
80°	25.7	26.0	25.7	25.4	25.1	25.4	25.1
82.5°	20.3	19.9	19.8	19.7	19.7	19.5	19.5
85°	11.5	11.9	11.5	11.3	11.3	11.3	11.5
87.5°	10.3	10.8	10.9	10.9	10.9	10.9	10.7
90°	30.0	32.0	33.0	33.0	33.0	33.0	33.0
92.5°	74.8	66.4	60.2	59.4	56.2	57.0	55.4
95°	201.0	159.0	137.0	124.0	116.1	113.0	114.0
97.5°	500.3	392.1	319.9	272.1	247.5	232.8	224.5
100°	789.2	652.1	531.1	448.1	405.1	376.1	358.1
102.5°	1082.8	982.6	854.4	764.1	690.8	654.5	630.2
105°	1328.3	1341.3	1308.3	1246.2	1184.2	1141.3	1127.2
107.5°	1310.3	1414.3	1462.7	1470.5	1467.1	1458.4	1439.9
110°	1254.2	1382.2	1464.3	1507.3	1526.3	1535.3	1534.3



TEST NUMBER: P331671-935

CATALOG NUMBER: SA2XXRDIP-C485D1080U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1187.8	1324.6	1418.7	1478.5	1510.3	1527.3	1532.7
115°	1097.3	1228.2	1331.3	1402.3	1448.3	1474.3	1483.3
117.5°	1023.6	1142.5	1239.1	1311.5	1360.0	1387.5	1395.1
120°	985.2	1091.2	1182.2	1252.2	1299.2	1328.3	1338.3
122.5°	953.2	1053.6	1135.8	1198.6	1244.8	1270.7	1279.0
125°	911.2	999.2	1074.2	1132.2	1170.3	1195.2	1203.2
127.5°	870.4	953.4	1022.6	1073.2	1108.8	1130.4	1136.9
130°	843.2	922.2	988.2	1037.2	1071.3	1091.2	1099.2
132.5°	817.6	890.2	952.2	1000.4	1034.4	1052.8	1060.0
135°	777.1	843.2	899.1	942.2	975.2	993.2	997.2
137.5°	744.9	797.4	846.2	885.4	913.8	929.6	935.6
140°	724.2	770.2	814.2	846.2	872.2	887.2	893.2
142.5°	705.8	745.4	782.1	812.5	836.2	849.5	850.8
145°	682.2	713.2	742.2	766.1	783.2	793.2	796.2
147.5°	663.0	687.2	708.3	728.1	741.8	748.6	750.4
150°	650.1	671.1	689.1	704.1	716.2	722.1	723.2
152.5°	639.7	657.5	673.1	684.9	695.3	699.7	699.9
155°	623.1	638.1	649.1	660.1	667.1	671.1	669.2
157.5°	606.3	618.9	627.5	635.3	641.1	642.9	642.9
160°	595.1	606.1	613.1	620.1	625.1	626.1	626.1
162.5°	584.7	594.1	599.5	606.5	609.9	610.9	610.1
165°	569.1	576.1	580.1	584.1	588.1	588.1	587.1
167.5°	554.9	559.7	563.4	565.1	567.3	567.1	565.9
170°	546.1	550.1	552.1	553.1	556.1	555.1	553.1
172.5°	538.1	541.3	542.5	543.5	544.9	543.9	542.7
175°	529.1	530.1	531.1	531.1	532.1	531.1	529.1
177.5°	522.5	523.3	523.3	523.3	523.3	522.5	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1

(END OF REPORT)