

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: P331671-927

Luminaire Tested: **SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331671-927
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: SA2XXRDIP-C485D1080U927-4F0-1E-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: 4805.7 lumens
Efficiency: N/A
Efficacy: 97.3 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

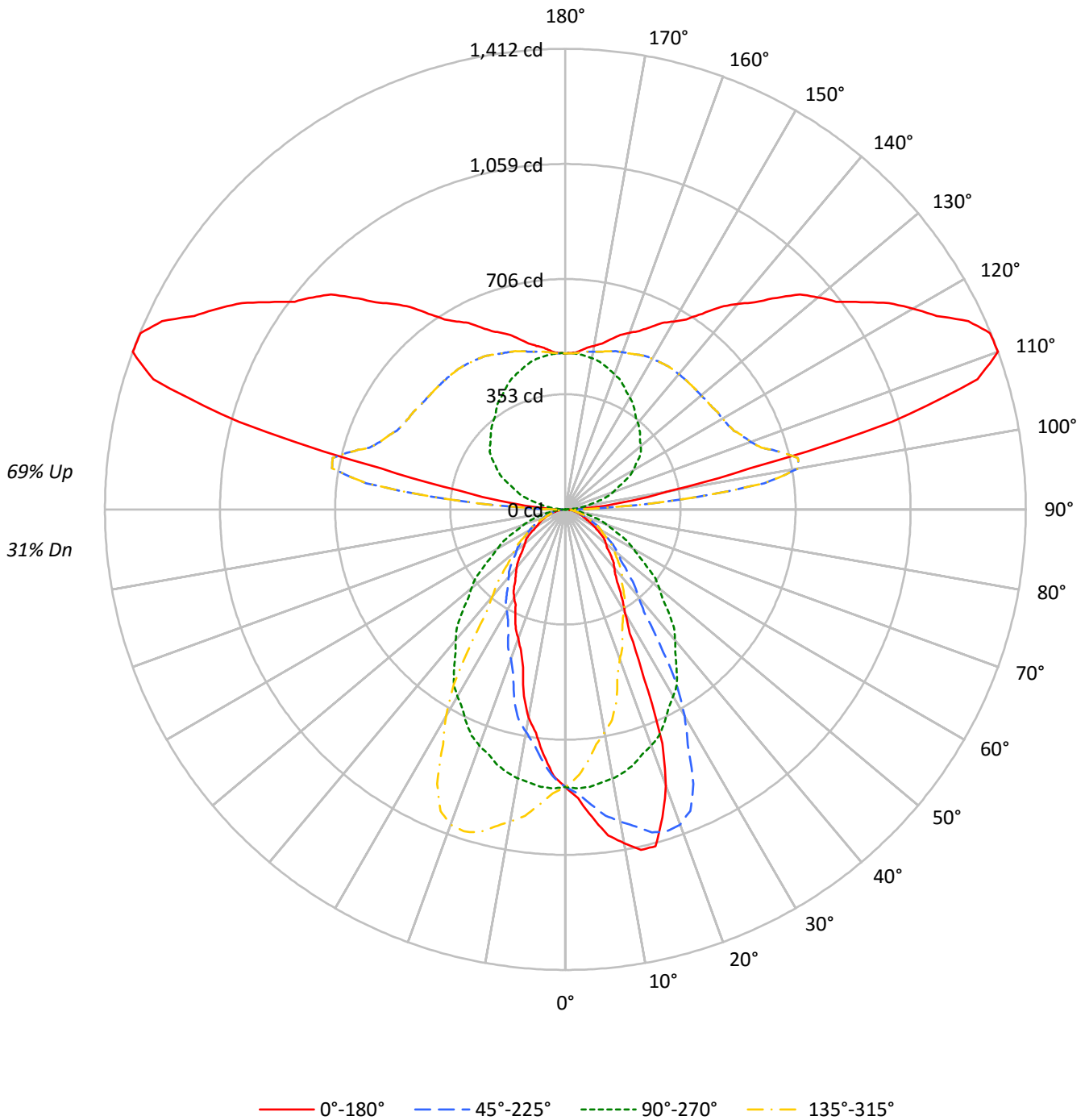
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13747	13747	13747	13747
5°	15352	13833	12266	13833
10°	17033	13736	10632	13736
15°	17870	13534	8376	13534
20°	15493	13235	7247	13235
25°	10162	12827	6472	12827
30°	6840	12333	5858	12333
35°	5541	11710	5282	11710
40°	4926	11030	4890	11030
45°	4459	10234	4364	10234
50°	4057	9445	4042	9445
55°	3814	8569	3764	8569
60°	3190	7766	3152	7766
65°	2690	7053	3053	7053
70°	2488	6297	2875	6297
75°	2327	5483	2658	5483
80°	2148	4510	2362	4510
85°	1964	3575	2075	3575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	1.7
10°-20°	224.9	4.7
20°-30°	289.8	6.0
30°-40°	275.4	5.7
40°-50°	235.9	4.9
50°-60°	179.7	3.7
60°-70°	113.6	2.4
70°-80°	56.7	1.2
80°-90°	19.1	0.4
90°-100°	191.3	4.0
100°-110°	649.3	13.5
110°-120°	689.8	14.4
120°-130°	567.8	11.8
130°-140°	456.0	9.5
140°-150°	344.6	7.2
150°-160°	242.2	5.0
160°-170°	142.6	3.0
170°-180°	46.4	1.0
0°-30°	595.4	12.4
0°-40°	870.8	18.1
0°-60°	1286.4	26.8
0°-90°	1475.7	30.7
90°-120°	1530.4	31.8
90°-150°	2898.8	60.3
90°-180°	3330.0	69.3
0°-180°	4805.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	851	851	851	851	851	
5°	947	854	757	854	947	93
15°	1069	810	501	810	1069	288
25°	570	720	363	720	570	271
35°	281	594	268	594	281	180
45°	195	448	191	448	195	151
55°	136	304	134	304	136	119
65°	70	185	80	185	70	72
75°	37	88	43	88	37	40
85°	11	19	11	19	11	12
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°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	886.0	886.7	887.4	885.7	885.7	884.3	881.2	878.8	872.2	871.2	871.2
5°	947.2	946.7	947.8	944.0	938.7	937.5	931.8	924.5	916.8	908.2	906.4
7.5°	1008.2	1007.3	1005.0	1004.2	1000.2	991.3	982.2	972.6	959.8	947.3	941.0
10°	1038.9	1048.7	1042.8	1032.5	1034.5	1020.6	1013.2	1000.5	989.8	971.2	967.1
12.5°	1069.2	1073.1	1071.2	1065.3	1062.7	1053.0	1043.1	1032.0	1012.3	995.6	981.0
15°	1069.1	1074.8	1076.3	1074.4	1075.9	1075.3	1070.0	1060.8	1043.7	1025.3	1009.4
17.5°	990.2	994.1	1003.8	1010.3	1018.7	1036.2	1044.8	1048.2	1045.6	1035.1	1023.9
20°	901.7	895.2	922.4	936.3	948.2	977.7	1003.1	1012.9	1028.6	1028.3	1025.3
22.5°	776.3	777.8	803.6	820.1	854.7	884.2	913.2	950.0	980.3	1000.4	1012.1
25°	570.4	581.6	607.4	629.8	668.3	723.3	773.3	831.3	886.0	929.2	970.3
27.5°	428.3	429.2	449.6	470.4	493.2	538.3	601.3	670.5	748.5	812.9	886.9
30°	366.9	365.0	373.7	386.3	405.9	440.8	488.1	556.2	634.0	731.0	817.4
32.5°	323.3	323.4	329.9	339.3	355.5	379.0	411.5	466.7	540.3	635.6	736.9
35°	281.1	280.7	285.5	292.3	299.0	314.2	336.4	365.4	416.0	505.0	608.6
37.5°	250.7	252.1	254.4	258.6	266.1	274.5	287.9	307.3	343.3	396.0	483.0
40°	233.7	234.3	237.6	241.1	245.6	252.1	263.0	278.7	305.0	347.0	410.6
42.5°	218.1	218.6	221.0	224.3	227.8	234.3	243.4	256.9	278.3	311.0	363.5
45°	195.3	195.3	197.3	198.8	202.6	208.6	215.9	227.2	242.0	266.3	301.2
47.5°	173.8	173.9	175.2	177.8	180.2	184.8	192.1	201.3	212.1	230.8	260.6
50°	161.5	161.8	162.7	164.8	166.3	170.4	176.0	184.0	195.3	209.8	234.6
52.5°	151.5	151.4	152.5	153.4	154.4	157.4	161.6	168.7	178.7	191.3	211.9
55°	135.5	134.3	136.1	137.5	138.5	139.7	142.0	146.5	155.0	165.6	181.0
57.5°	115.3	114.9	116.1	117.5	120.3	123.5	125.5	128.3	132.8	140.4	155.7
60°	98.8	98.8	101.5	102.3	105.6	109.7	113.9	116.3	120.7	125.7	137.0
62.5°	84.1	84.4	85.6	86.5	88.3	93.4	99.3	104.4	108.6	113.4	120.9
65°	70.4	71.0	71.0	71.6	72.8	74.0	76.3	80.5	87.9	94.7	100.3
67.5°	59.7	60.0	60.1	60.7	61.0	62.3	63.2	65.1	66.8	73.3	80.2
70°	52.7	53.6	53.2	53.9	54.1	54.7	55.9	56.8	59.5	60.9	65.1
72.5°	46.0	46.7	46.7	47.0	47.8	47.8	48.8	49.7	51.4	52.7	54.9
75°	37.3	37.0	37.3	37.9	38.2	38.4	38.4	39.6	40.6	41.7	43.2
77.5°	28.8	29.1	29.0	29.1	29.1	29.6	29.5	30.1	31.0	31.6	32.3
80°	23.1	23.4	23.1	23.4	23.7	23.9	23.7	23.9	24.9	25.4	25.4
82.5°	17.9	17.9	18.1	18.1	18.2	18.3	18.7	18.8	19.4	19.3	19.5
85°	10.6	10.4	10.4	10.4	10.6	10.9	10.6	10.6	10.9	10.9	10.9
87.5°	9.8	10.1	10.1	10.1	10.1	9.9	9.5	10.1	10.1	10.5	10.1
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



TEST NUMBER: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

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



TEST NUMBER: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	871.7	869.9	868.2	864.0	861.8	857.1	856.3	856.1	850.0	844.1	842.4
5°	901.7	897.0	889.9	881.5	873.0	864.1	858.2	853.5	841.6	830.4	823.9
7.5°	931.8	921.7	909.4	893.7	880.7	866.0	855.2	845.3	828.5	812.5	801.6
10°	954.3	937.8	921.5	899.9	883.0	866.5	851.1	837.8	818.9	797.6	782.4
12.5°	968.3	950.1	927.6	906.6	884.7	863.6	843.0	825.9	803.7	781.7	763.7
15°	987.2	967.7	940.5	910.3	882.2	854.7	831.0	809.7	780.7	754.4	732.5
17.5°	1002.7	975.7	946.5	911.6	879.1	844.1	813.7	786.4	754.2	722.4	696.6
20°	1007.6	981.0	947.2	912.4	873.9	832.7	799.9	770.3	735.7	701.1	671.5
22.5°	1004.5	983.8	946.3	904.5	865.1	822.1	785.1	750.7	712.3	677.0	642.7
25°	983.7	976.5	941.0	895.5	850.5	800.5	757.6	720.0	676.3	638.4	601.1
27.5°	934.9	950.3	928.3	879.7	829.7	776.1	727.9	685.2	639.7	597.1	559.9
30°	888.1	923.3	913.8	868.9	812.9	760.3	706.2	661.5	613.0	569.2	532.5
32.5°	823.9	882.1	891.4	853.7	795.9	738.0	681.3	636.8	586.2	540.0	504.3
35°	721.8	808.8	848.7	824.7	766.8	704.4	645.8	594.1	543.1	497.6	462.1
37.5°	600.0	718.4	785.1	786.7	733.5	668.6	604.8	553.4	501.3	456.6	418.2
40°	520.9	649.4	736.0	755.3	710.3	640.2	575.7	523.3	472.5	428.6	384.6
42.5°	450.0	577.9	684.4	717.9	682.1	612.5	547.8	493.1	443.5	402.1	357.1
45°	363.8	475.7	593.1	652.9	633.1	568.5	500.3	448.2	401.7	365.9	322.7
47.5°	307.0	385.8	499.4	580.3	579.9	521.0	453.8	403.9	360.8	327.3	292.3
50°	274.5	343.2	439.3	531.0	538.7	489.3	425.4	376.0	335.8	300.6	272.4
52.5°	245.4	302.0	388.4	476.3	498.2	455.4	393.5	347.8	308.8	276.4	252.3
55°	207.4	251.1	316.9	399.1	432.2	402.0	347.0	304.4	272.7	245.6	224.8
57.5°	175.4	208.3	260.9	327.2	365.8	346.7	301.4	266.8	239.7	215.1	198.8
60°	155.3	182.2	226.9	282.3	324.8	311.5	272.7	240.5	217.5	196.1	180.8
62.5°	136.4	159.5	197.8	242.7	281.8	276.2	244.6	217.5	197.3	177.9	164.9
65°	109.7	126.6	156.5	191.7	223.1	225.7	203.0	184.6	166.5	151.1	139.7
67.5°	87.4	98.4	119.5	149.1	172.6	181.0	167.1	153.0	138.7	126.8	116.8
70°	73.7	82.5	97.9	121.9	143.5	152.3	144.3	133.4	121.0	111.2	102.7
72.5°	59.7	68.4	79.7	97.3	115.8	125.4	122.6	114.7	104.6	96.6	88.5
75°	45.0	47.6	55.3	67.2	81.7	89.9	92.0	87.9	79.9	73.7	68.9
77.5°	33.3	34.9	38.5	44.8	54.2	61.6	64.6	64.2	58.6	55.1	50.6
80°	26.6	27.5	29.3	31.9	39.1	46.4	48.5	48.5	44.7	43.2	38.7
82.5°	20.2	20.9	21.9	23.4	26.8	33.2	35.5	36.0	33.5	31.6	28.1
85°	11.6	11.2	11.8	12.8	13.3	15.1	18.6	19.3	18.6	16.2	15.4
87.5°	9.0	7.9	7.1	6.3	6.1	5.9	6.4	7.1	6.7	6.7	6.6
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: P331671-927

CATALOG NUMBER: SA2XXRDIP-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: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	839.3	837.7	834.6	829.9	827.0	822.0	818.7	820.6	821.1	820.6	820.1
5°	816.8	810.6	802.0	793.7	786.0	777.8	773.0	771.0	766.8	764.5	763.3
7.5°	789.5	778.8	766.7	752.3	740.0	727.1	720.6	717.3	708.8	704.3	700.2
10°	769.1	752.3	740.1	721.2	709.7	692.8	681.3	681.6	670.0	663.5	658.8
12.5°	746.7	728.2	708.0	690.9	674.9	661.4	647.5	641.8	629.5	623.3	610.5
15°	709.4	687.8	666.5	643.4	627.2	606.2	586.1	561.5	541.7	524.5	519.8
17.5°	668.7	642.0	620.6	593.5	565.6	530.3	507.0	492.7	480.8	471.7	465.0
20°	640.8	613.5	590.8	549.9	512.4	488.4	471.3	460.3	447.9	438.2	432.8
22.5°	611.4	583.0	552.0	506.4	477.1	457.9	442.6	430.0	421.6	414.0	409.2
25°	569.7	538.7	487.5	456.1	432.5	412.4	401.7	394.0	385.2	374.8	370.1
27.5°	525.8	476.3	439.6	416.3	393.7	380.6	371.1	359.6	351.6	347.0	342.1
30°	492.8	443.5	414.8	389.3	373.4	358.9	347.6	341.1	333.4	325.4	322.2
32.5°	456.1	416.7	389.2	368.0	351.8	339.5	330.6	320.0	314.5	309.6	302.8
35°	410.6	380.7	355.6	338.4	323.1	313.0	302.6	296.4	286.4	282.3	279.6
37.5°	372.0	346.1	327.3	309.3	297.1	286.0	279.6	269.7	265.4	259.6	254.0
40°	350.2	324.8	306.8	292.0	278.4	270.1	262.1	254.1	247.6	244.9	238.1
42.5°	328.0	307.3	289.2	273.1	264.0	255.2	245.1	239.2	232.4	228.1	223.9
45°	297.3	279.0	263.6	250.3	240.2	231.1	224.5	214.8	211.0	202.3	198.8
47.5°	270.3	253.3	238.6	225.9	216.1	210.2	200.7	193.0	186.9	181.6	177.1
50°	251.1	236.9	222.8	211.5	202.6	194.1	184.3	180.5	171.0	168.3	165.6
52.5°	233.6	220.1	207.2	196.1	187.3	179.0	170.3	165.3	158.9	156.2	154.3
55°	209.1	196.1	183.7	174.0	165.1	156.5	151.1	145.0	142.0	139.9	137.5
57.5°	184.5	172.9	163.3	153.4	144.5	137.7	131.5	127.8	124.7	122.0	119.1
60°	168.9	157.6	149.1	139.9	130.8	125.2	120.4	116.0	112.4	108.3	107.1
62.5°	152.3	142.5	134.7	125.7	117.7	112.6	108.1	103.9	99.7	93.6	92.0
65°	129.6	121.9	113.6	106.2	99.1	94.1	87.5	82.9	81.0	80.5	80.2
67.5°	109.0	101.7	94.6	87.1	80.6	75.9	72.6	71.9	70.7	70.3	69.5
70°	95.2	88.5	81.4	74.2	68.0	67.2	66.0	64.8	63.3	62.7	62.1
72.5°	82.9	75.9	68.8	63.1	60.4	59.3	58.1	57.0	56.0	55.4	55.1
75°	63.6	57.1	52.4	50.3	48.8	47.9	46.2	45.2	44.7	43.8	43.5
77.5°	45.8	42.1	39.9	38.7	37.1	36.1	35.2	34.2	33.6	33.4	33.0
80°	34.9	33.1	31.7	29.9	29.3	28.1	27.8	26.9	27.3	26.3	26.3
82.5°	27.1	24.9	23.6	22.8	22.2	21.2	20.9	20.5	20.6	20.0	20.0
85°	13.9	13.3	12.8	12.1	12.1	11.2	11.6	11.2	11.2	10.6	10.4
87.5°	6.7	7.1	7.4	8.8	9.8	9.8	9.6	9.2	8.9	9.2	9.2
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: P331671-927

CATALOG NUMBER: SA2XXRDIP-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: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	817.5	818.0	817.3	817.8	817.3	818.0	817.5	820.1	820.6	821.1	820.6
5°	761.8	758.2	757.6	756.8	757.6	758.2	761.8	763.3	764.5	766.8	771.0
7.5°	695.1	694.6	693.2	691.0	693.2	694.6	695.1	700.2	704.3	708.8	717.3
10°	652.3	650.9	650.5	648.5	650.5	650.9	652.3	658.8	663.5	670.0	681.6
12.5°	602.1	592.6	591.6	586.5	591.6	592.6	602.1	610.5	623.3	629.5	641.8
15°	512.7	510.9	505.0	501.1	505.0	510.9	512.7	519.8	524.5	541.7	561.5
17.5°	461.5	455.7	453.9	453.1	453.9	455.7	461.5	465.0	471.7	480.8	492.7
20°	428.6	423.3	422.5	421.8	422.5	423.3	428.6	432.8	438.2	447.9	460.3
22.5°	405.9	400.4	398.1	396.3	398.1	400.4	405.9	409.2	414.0	421.6	430.0
25°	367.1	365.0	363.8	363.3	363.8	365.0	367.1	370.1	374.8	385.2	394.0
27.5°	336.8	332.2	331.3	329.8	331.3	332.2	336.8	342.1	347.0	351.6	359.6
30°	319.5	318.0	315.9	314.2	315.9	318.0	319.5	322.2	325.4	333.4	341.1
32.5°	299.1	297.9	296.0	295.2	296.0	297.9	299.1	302.8	309.6	314.5	320.0
35°	276.6	272.4	270.7	268.0	270.7	272.4	276.6	279.6	282.3	286.4	296.4
37.5°	252.8	250.6	248.1	249.0	248.1	250.6	252.8	254.0	259.6	265.4	269.7
40°	234.3	232.8	232.2	232.0	232.2	232.8	234.3	238.1	244.9	247.6	254.1
42.5°	219.6	215.6	214.0	214.0	214.0	215.6	219.6	223.9	228.1	232.4	239.2
45°	197.3	193.5	190.8	191.1	190.8	193.5	197.3	198.8	202.3	211.0	214.8
47.5°	174.5	174.4	172.7	173.3	172.7	174.4	174.5	177.1	181.6	186.9	193.0
50°	163.6	161.8	160.7	160.9	160.7	161.8	163.6	165.6	168.3	171.0	180.5
52.5°	153.2	151.6	150.7	151.9	150.7	151.6	153.2	154.3	156.2	158.9	165.3
55°	136.1	134.3	134.0	133.7	134.0	134.3	136.1	137.5	139.9	142.0	145.0
57.5°	117.0	115.8	114.0	113.3	114.0	115.8	117.0	119.1	122.0	124.7	127.8
60°	103.2	100.8	97.9	97.6	97.9	100.8	103.2	107.1	108.3	112.4	116.0
62.5°	90.7	90.2	89.7	89.6	89.7	90.2	90.7	92.0	93.6	99.7	103.9
65°	79.6	79.3	79.6	79.9	79.6	79.3	79.6	80.2	80.5	81.0	82.9
67.5°	69.3	68.8	68.3	68.5	68.3	68.8	69.3	69.5	70.3	70.7	71.9
70°	61.6	61.2	60.9	60.9	60.9	61.2	61.6	62.1	62.7	63.3	64.8
72.5°	53.9	53.9	53.6	53.4	53.6	53.9	53.9	55.1	55.4	56.0	57.0
75°	43.2	42.6	42.6	42.6	42.6	42.6	43.2	43.5	43.8	44.7	45.2
77.5°	32.9	32.6	32.3	32.1	32.3	32.6	32.9	33.0	33.4	33.6	34.2
80°	26.1	25.7	25.4	25.4	25.4	25.7	26.1	26.3	26.3	27.3	26.9
82.5°	19.9	19.6	19.5	19.3	19.5	19.6	19.9	20.0	20.0	20.6	20.5
85°	10.6	10.9	10.6	11.2	10.6	10.9	10.6	10.4	10.6	11.2	11.2
87.5°	9.2	9.0	9.2	9.0	9.2	9.0	9.2	9.2	9.2	8.9	9.2
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: P331671-927

CATALOG NUMBER: SA2XXRDIP-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: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	818.7	822.0	827.0	829.9	834.6	837.7	839.3	842.4	844.1	850.0	856.1
5°	773.0	777.8	786.0	793.7	802.0	810.6	816.8	823.9	830.4	841.6	853.5
7.5°	720.6	727.1	740.0	752.3	766.7	778.8	789.5	801.6	812.5	828.5	845.3
10°	681.3	692.8	709.7	721.2	740.1	752.3	769.1	782.4	797.6	818.9	837.8
12.5°	647.5	661.4	674.9	690.9	708.0	728.2	746.7	763.7	781.7	803.7	825.9
15°	586.1	606.2	627.2	643.4	666.5	687.8	709.4	732.5	754.4	780.7	809.7
17.5°	507.0	530.3	565.6	593.5	620.6	642.0	668.7	696.6	722.4	754.2	786.4
20°	471.3	488.4	512.4	549.9	590.8	613.5	640.8	671.5	701.1	735.7	770.3
22.5°	442.6	457.9	477.1	506.4	552.0	583.0	611.4	642.7	677.0	712.3	750.7
25°	401.7	412.4	432.5	456.1	487.5	538.7	569.7	601.1	638.4	676.3	720.0
27.5°	371.1	380.6	393.7	416.3	439.6	476.3	525.8	559.9	597.1	639.7	685.2
30°	347.6	358.9	373.4	389.3	414.8	443.5	492.8	532.5	569.2	613.0	661.5
32.5°	330.6	339.5	351.8	368.0	389.2	416.7	456.1	504.3	540.0	586.2	636.8
35°	302.6	313.0	323.1	338.4	355.6	380.7	410.6	462.1	497.6	543.1	594.1
37.5°	279.6	286.0	297.1	309.3	327.3	346.1	372.0	418.2	456.6	501.3	553.4
40°	262.1	270.1	278.4	292.0	306.8	324.8	350.2	384.6	428.6	472.5	523.3
42.5°	245.1	255.2	264.0	273.1	289.2	307.3	328.0	357.1	402.1	443.5	493.1
45°	224.5	231.1	240.2	250.3	263.6	279.0	297.3	322.7	365.9	401.7	448.2
47.5°	200.7	210.2	216.1	225.9	238.6	253.3	270.3	292.3	327.3	360.8	403.9
50°	184.3	194.1	202.6	211.5	222.8	236.9	251.1	272.4	300.6	335.8	376.0
52.5°	170.3	179.0	187.3	196.1	207.2	220.1	233.6	252.3	276.4	308.8	347.8
55°	151.1	156.5	165.1	174.0	183.7	196.1	209.1	224.8	245.6	272.7	304.4
57.5°	131.5	137.7	144.5	153.4	163.3	172.9	184.5	198.8	215.1	239.7	266.8
60°	120.4	125.2	130.8	139.9	149.1	157.6	168.9	180.8	196.1	217.5	240.5
62.5°	108.1	112.6	117.7	125.7	134.7	142.5	152.3	164.9	177.9	197.3	217.5
65°	87.5	94.1	99.1	106.2	113.6	121.9	129.6	139.7	151.1	166.5	184.6
67.5°	72.6	75.9	80.6	87.1	94.6	101.7	109.0	116.8	126.8	138.7	153.0
70°	66.0	67.2	68.0	74.2	81.4	88.5	95.2	102.7	111.2	121.0	133.4
72.5°	58.1	59.3	60.4	63.1	68.8	75.9	82.9	88.5	96.6	104.6	114.7
75°	46.2	47.9	48.8	50.3	52.4	57.1	63.6	68.9	73.7	79.9	87.9
77.5°	35.2	36.1	37.1	38.7	39.9	42.1	45.8	50.6	55.1	58.6	64.2
80°	27.8	28.1	29.3	29.9	31.7	33.1	34.9	38.7	43.2	44.7	48.5
82.5°	20.9	21.2	22.2	22.8	23.6	24.9	27.1	28.1	31.6	33.5	36.0
85°	11.6	11.2	12.1	12.1	12.8	13.3	13.9	15.4	16.2	18.6	19.3
87.5°	9.6	9.8	9.8	8.8	7.4	7.1	6.7	6.6	6.7	6.7	7.1
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: P331671-927

CATALOG NUMBER: SA2XXRDIP-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: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	856.3	857.1	861.8	864.0	868.2	869.9	871.7	871.2	871.2	872.2	878.8
5°	858.2	864.1	873.0	881.5	889.9	897.0	901.7	906.4	908.2	916.8	924.5
7.5°	855.2	866.0	880.7	893.7	909.4	921.7	931.8	941.0	947.3	959.8	972.6
10°	851.1	866.5	883.0	899.9	921.5	937.8	954.3	967.1	971.2	989.8	1000.5
12.5°	843.0	863.6	884.7	906.6	927.6	950.1	968.3	981.0	995.6	1012.3	1032.0
15°	831.0	854.7	882.2	910.3	940.5	967.7	987.2	1009.4	1025.3	1043.7	1060.8
17.5°	813.7	844.1	879.1	911.6	946.5	975.7	1002.7	1023.9	1035.1	1045.6	1048.2
20°	799.9	832.7	873.9	912.4	947.2	981.0	1007.6	1025.3	1028.3	1028.6	1012.9
22.5°	785.1	822.1	865.1	904.5	946.3	983.8	1004.5	1012.1	1000.4	980.3	950.0
25°	757.6	800.5	850.5	895.5	941.0	976.5	983.7	970.3	929.2	886.0	831.3
27.5°	727.9	776.1	829.7	879.7	928.3	950.3	934.9	886.9	812.9	748.5	670.5
30°	706.2	760.3	812.9	868.9	913.8	923.3	888.1	817.4	731.0	634.0	556.2
32.5°	681.3	738.0	795.9	853.7	891.4	882.1	823.9	736.9	635.6	540.3	466.7
35°	645.8	704.4	766.8	824.7	848.7	808.8	721.8	608.6	505.0	416.0	365.4
37.5°	604.8	668.6	733.5	786.7	785.1	718.4	600.0	483.0	396.0	343.3	307.3
40°	575.7	640.2	710.3	755.3	736.0	649.4	520.9	410.6	347.0	305.0	278.7
42.5°	547.8	612.5	682.1	717.9	684.4	577.9	450.0	363.5	311.0	278.3	256.9
45°	500.3	568.5	633.1	652.9	593.1	475.7	363.8	301.2	266.3	242.0	227.2
47.5°	453.8	521.0	579.9	580.3	499.4	385.8	307.0	260.6	230.8	212.1	201.3
50°	425.4	489.3	538.7	531.0	439.3	343.2	274.5	234.6	209.8	195.3	184.0
52.5°	393.5	455.4	498.2	476.3	388.4	302.0	245.4	211.9	191.3	178.7	168.7
55°	347.0	402.0	432.2	399.1	316.9	251.1	207.4	181.0	165.6	155.0	146.5
57.5°	301.4	346.7	365.8	327.2	260.9	208.3	175.4	155.7	140.4	132.8	128.3
60°	272.7	311.5	324.8	282.3	226.9	182.2	155.3	137.0	125.7	120.7	116.3
62.5°	244.6	276.2	281.8	242.7	197.8	159.5	136.4	120.9	113.4	108.6	104.4
65°	203.0	225.7	223.1	191.7	156.5	126.6	109.7	100.3	94.7	87.9	80.5
67.5°	167.1	181.0	172.6	149.1	119.5	98.4	87.4	80.2	73.3	66.8	65.1
70°	144.3	152.3	143.5	121.9	97.9	82.5	73.7	65.1	60.9	59.5	56.8
72.5°	122.6	125.4	115.8	97.3	79.7	68.4	59.7	54.9	52.7	51.4	49.7
75°	92.0	89.9	81.7	67.2	55.3	47.6	45.0	43.2	41.7	40.6	39.6
77.5°	64.6	61.6	54.2	44.8	38.5	34.9	33.3	32.3	31.6	31.0	30.1
80°	48.5	46.4	39.1	31.9	29.3	27.5	26.6	25.4	25.4	24.9	23.9
82.5°	35.5	33.2	26.8	23.4	21.9	20.9	20.2	19.5	19.3	19.4	18.8
85°	18.6	15.1	13.3	12.8	11.8	11.2	11.6	10.9	10.9	10.9	10.6
87.5°	6.4	5.9	6.1	6.3	7.1	7.9	9.0	10.1	10.5	10.1	10.1
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: P331671-927

CATALOG NUMBER: SA2XXRDIP-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



TEST NUMBER: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	851.4	851.4	851.4	851.4	851.4	851.4	851.4
2.5°	881.2	884.3	885.7	885.7	887.4	886.7	886.0
5°	931.8	937.5	938.7	944.0	947.8	946.7	947.2
7.5°	982.2	991.3	1000.2	1004.2	1005.0	1007.3	1008.2
10°	1013.2	1020.6	1034.5	1032.5	1042.8	1048.7	1038.9
12.5°	1043.1	1053.0	1062.7	1065.3	1071.2	1073.1	1069.2
15°	1070.0	1075.3	1075.9	1074.4	1076.3	1074.8	1069.1
17.5°	1044.8	1036.2	1018.7	1010.3	1003.8	994.1	990.2
20°	1003.1	977.7	948.2	936.3	922.4	895.2	901.7
22.5°	913.2	884.2	854.7	820.1	803.6	777.8	776.3
25°	773.3	723.3	668.3	629.8	607.4	581.6	570.4
27.5°	601.3	538.3	493.2	470.4	449.6	429.2	428.3
30°	488.1	440.8	405.9	386.3	373.7	365.0	366.9
32.5°	411.5	379.0	355.5	339.3	329.9	323.4	323.3
35°	336.4	314.2	299.0	292.3	285.5	280.7	281.1
37.5°	287.9	274.5	266.1	258.6	254.4	252.1	250.7
40°	263.0	252.1	245.6	241.1	237.6	234.3	233.7
42.5°	243.4	234.3	227.8	224.3	221.0	218.6	218.1
45°	215.9	208.6	202.6	198.8	197.3	195.3	195.3
47.5°	192.1	184.8	180.2	177.8	175.2	173.9	173.8
50°	176.0	170.4	166.3	164.8	162.7	161.8	161.5
52.5°	161.6	157.4	154.4	153.4	152.5	151.4	151.5
55°	142.0	139.7	138.5	137.5	136.1	134.3	135.5
57.5°	125.5	123.5	120.3	117.5	116.1	114.9	115.3
60°	113.9	109.7	105.6	102.3	101.5	98.8	98.8
62.5°	99.3	93.4	88.3	86.5	85.6	84.4	84.1
65°	76.3	74.0	72.8	71.6	71.0	71.0	70.4
67.5°	63.2	62.3	61.0	60.7	60.1	60.0	59.7
70°	55.9	54.7	54.1	53.9	53.2	53.6	52.7
72.5°	48.8	47.8	47.8	47.0	46.7	46.7	46.0
75°	38.4	38.4	38.2	37.9	37.3	37.0	37.3
77.5°	29.5	29.6	29.1	29.1	29.0	29.1	28.8
80°	23.7	23.9	23.7	23.4	23.1	23.4	23.1
82.5°	18.7	18.3	18.2	18.1	18.1	17.9	17.9
85°	10.6	10.9	10.6	10.4	10.4	10.4	10.6
87.5°	9.5	9.9	10.1	10.1	10.1	10.1	9.8
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



TEST NUMBER: P331671-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-A4

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)