

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: P331652-927

Luminaire Tested: **S122RDIP-S485D530U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331652-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S485D530U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2970.4 lumens
Efficiency: N/A
Efficacy: 90.6 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: General Diffuse

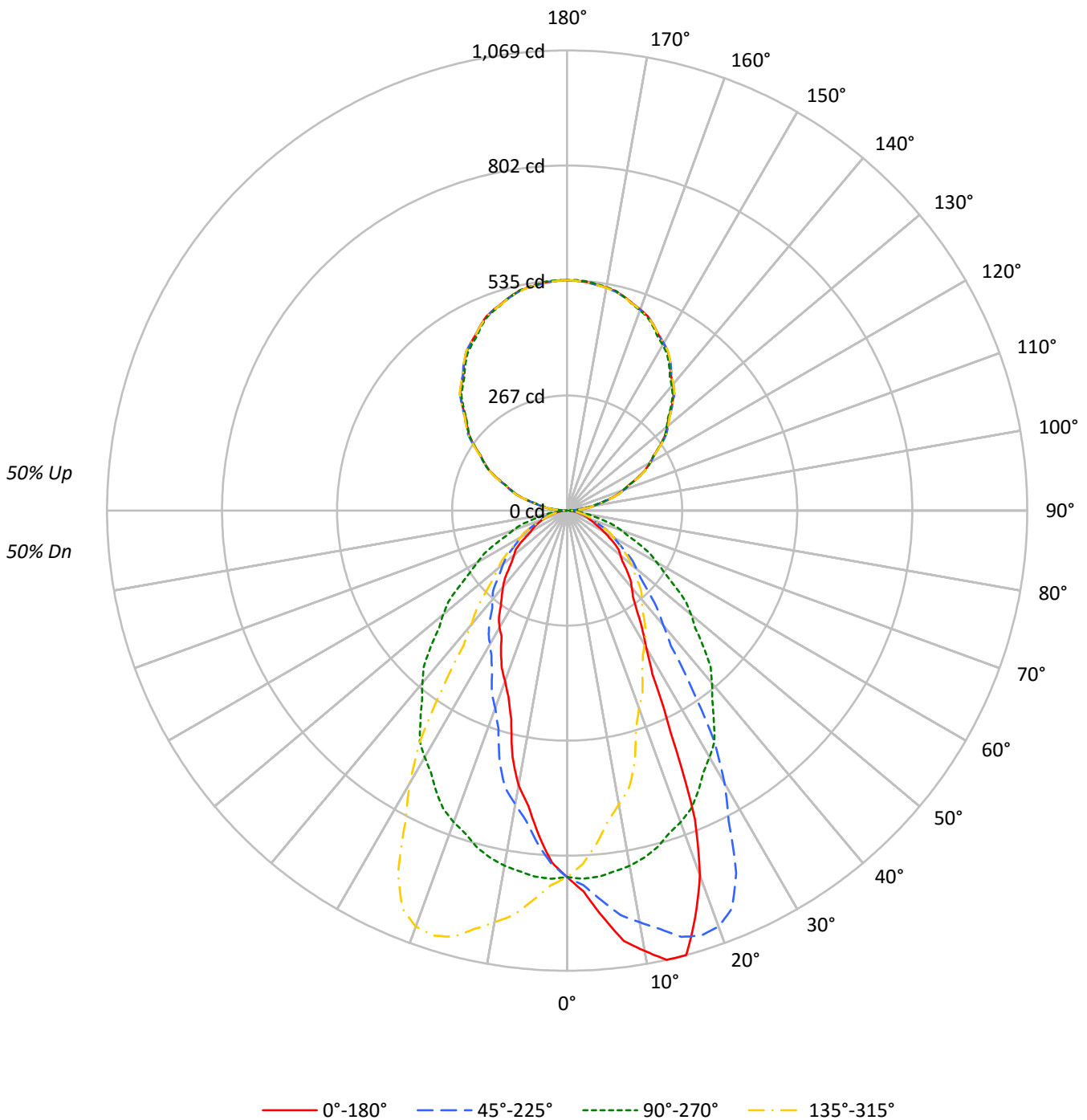
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

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



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	2.7
10°-20°	224.9	7.6
20°-30°	289.8	9.8
30°-40°	275.4	9.3
40°-50°	235.9	7.9
50°-60°	179.7	6.0
60°-70°	113.6	3.8
70°-80°	56.7	1.9
80°-90°	16.9	0.6
90°-100°	33.9	1.1
100°-110°	105.4	3.5
110°-120°	180.1	6.1
120°-130°	236.8	8.0
130°-140°	265.8	8.9
140°-150°	260.6	8.8
150°-160°	218.6	7.4
160°-170°	145.0	4.9
170°-180°	50.7	1.7
0°-30°	595.4	20.0
0°-40°	870.8	29.3
0°-60°	1286.4	43.3
0°-90°	1473.5	49.6
90°-120°	319.4	10.8
90°-150°	1082.6	36.4
90°-180°	1497.0	50.4
0°-180°	2970.4	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°	15	0	15	0	15	7
95°	28	24	28	24	28	31
105°	100	97	100	97	100	105
115°	181	181	181	181	181	178
125°	264	263	264	263	264	235
135°	344	340	344	340	344	265
145°	417	413	417	413	417	261
155°	476	472	476	472	476	219
165°	514	514	514	514	514	145
175°	533	534	533	534	533	51
180°	535	535	535	535	535	



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.4	7.1	7.4	6.7
90°	15.4	15.3	15.1	15.1	15.0	15.0	15.2	15.4	15.6	15.8	13.6
92.5°	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.4	14.4	14.3	13.9
95°	28.0	28.2	28.4	28.6	28.8	28.9	28.9	28.9	28.9	28.9	28.7
97.5°	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.2
100°	61.9	62.0	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.0
102.5°	77.1	77.2	77.2	77.4	77.5	77.5	77.4	77.3	77.2	77.2	76.8
105°	100.3	100.3	100.3	100.3	100.3	100.2	100.0	99.8	99.6	99.4	99.2
107.5°	122.2	122.6	123.1	123.5	124.0	124.2	124.1	124.1	124.0	123.9	123.9
110°	139.1	139.4	139.7	140.1	140.4	140.5	140.5	140.5	140.5	140.5	140.5



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	155.4	155.6	155.8	156.1	156.3	156.5	156.8	157.0	157.2	157.5	157.6
115°	180.7	181.0	181.3	181.6	181.9	182.1	182.2	182.3	182.4	182.5	182.7
117.5°	204.8	205.1	205.4	205.7	206.0	206.3	206.5	206.8	207.0	207.2	207.8
120°	221.8	222.1	222.4	222.7	223.0	223.2	223.2	223.2	223.2	223.2	223.9
122.5°	238.4	238.7	238.8	239.1	239.3	239.6	239.8	240.0	240.3	240.5	241.1
125°	263.8	263.9	264.0	264.1	264.2	264.4	264.7	265.0	265.3	265.6	265.9
127.5°	286.9	287.2	287.6	287.9	288.2	288.6	288.9	289.3	289.6	290.0	290.4
130°	303.6	304.0	304.4	304.8	305.1	305.5	305.7	305.9	306.1	306.3	306.5
132.5°	319.5	319.8	320.1	320.4	320.8	321.2	321.5	322.0	322.5	322.9	322.9
135°	344.2	344.5	344.8	345.2	345.4	345.6	345.7	345.9	345.9	346.0	345.9
137.5°	366.6	367.0	367.4	367.8	368.2	368.4	368.5	368.6	368.7	368.8	368.5
140°	382.1	382.5	382.9	383.3	383.8	384.0	384.0	384.0	384.0	384.0	383.5
142.5°	396.2	396.6	397.0	397.4	397.8	398.0	397.9	397.8	397.8	397.7	397.4
145°	417.4	417.8	418.2	418.6	419.0	419.1	419.1	419.0	418.8	418.7	418.2
147.5°	436.3	436.7	437.0	437.4	437.8	437.9	437.7	437.4	437.2	437.0	436.6
150°	448.6	448.9	449.2	449.5	449.8	449.8	449.5	449.2	448.9	448.6	448.1
152.5°	460.2	460.5	460.9	461.3	461.7	461.7	461.3	460.9	460.5	460.2	459.6
155°	475.7	475.9	476.3	476.6	476.9	476.8	476.3	475.8	475.3	474.8	474.4
157.5°	489.0	489.6	490.0	490.5	491.0	490.9	490.2	489.5	488.9	488.1	488.0
160°	497.3	497.7	498.2	498.6	499.0	498.8	498.3	497.6	497.1	496.5	496.4
162.5°	504.6	505.1	505.6	506.0	506.5	506.4	505.7	505.0	504.4	503.7	503.6
165°	514.0	514.6	515.1	515.6	516.1	515.9	515.3	514.6	513.9	513.2	513.2
167.5°	521.8	522.4	522.9	523.4	523.9	523.9	523.2	522.4	521.7	521.0	521.0
170°	525.9	526.4	527.0	527.6	528.2	528.1	527.5	526.8	526.1	525.4	525.5
172.5°	529.1	529.7	530.3	530.9	531.5	531.4	530.8	530.0	529.3	528.6	528.7
175°	532.6	533.2	533.8	534.4	535.0	535.0	534.2	533.5	532.8	532.1	532.3
177.5°	534.2	534.7	535.2	535.7	536.1	536.1	535.7	535.2	534.7	534.2	534.4
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	6.3	6.1	5.6	5.1	5.1	5.1	6.0	7.0	6.3	5.8	5.5
90°	11.4	9.2	7.0	5.3	4.0	2.9	1.7	0.5	1.7	2.9	4.0
92.5°	13.3	12.8	12.3	11.6	10.7	9.8	9.0	8.1	9.0	9.8	10.7
95°	28.5	28.3	28.1	27.5	26.5	25.5	24.5	23.5	24.5	25.5	26.5
97.5°	47.8	47.5	47.1	46.4	45.6	44.7	43.8	42.9	43.8	44.7	45.6
100°	61.7	61.5	61.2	60.6	59.8	58.9	58.1	57.4	58.1	58.9	59.8
102.5°	76.4	76.0	75.7	75.1	74.5	73.8	73.2	72.6	73.2	73.8	74.5
105°	98.9	98.8	98.5	98.3	98.0	97.8	97.4	97.1	97.4	97.8	98.0
107.5°	123.9	123.9	123.9	123.7	123.2	122.8	122.3	121.9	122.3	122.8	123.2
110°	140.5	140.5	140.5	140.2	139.6	138.9	138.4	137.8	138.4	138.9	139.6



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	157.6	157.7	157.8	157.6	156.9	156.3	155.7	155.1	155.7	156.3	156.9
115°	182.9	183.1	183.3	183.1	182.5	181.9	181.3	180.7	181.3	181.9	182.5
117.5°	208.3	209.0	209.5	209.4	208.6	207.8	207.0	206.2	207.0	207.8	208.6
120°	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2	223.9	224.7	225.5
122.5°	241.6	242.2	242.7	242.6	241.6	240.7	239.6	238.7	239.6	240.7	241.6
125°	266.3	266.5	266.8	266.5	265.6	264.7	263.8	262.9	263.8	264.7	265.6
127.5°	290.7	291.1	291.4	291.0	289.9	288.8	287.6	286.5	287.6	288.8	289.9
130°	306.7	306.9	307.0	306.5	305.2	303.9	302.6	301.3	302.6	303.9	305.2
132.5°	322.8	322.8	322.7	322.2	321.2	320.0	319.0	317.9	319.0	320.0	321.2
135°	345.6	345.4	345.2	344.6	343.5	342.4	341.3	340.2	341.3	342.4	343.5
137.5°	368.3	368.0	367.7	367.2	366.3	365.4	364.5	363.5	364.5	365.4	366.3
140°	382.9	382.5	382.0	381.3	380.3	379.5	378.6	377.6	378.6	379.5	380.3
142.5°	397.0	396.7	396.3	395.7	394.8	394.0	393.0	392.1	393.0	394.0	394.8
145°	417.6	416.9	416.4	415.7	415.0	414.3	413.6	412.9	413.6	414.3	415.0
147.5°	436.2	435.8	435.4	434.7	434.0	433.1	432.2	431.4	432.2	433.1	434.0
150°	447.7	447.3	446.9	446.5	445.8	445.3	444.7	444.1	444.7	445.3	445.8
152.5°	459.1	458.7	458.2	457.6	457.1	456.5	455.9	455.3	455.9	456.5	457.1
155°	474.2	473.9	473.6	473.2	472.9	472.7	472.4	472.1	472.4	472.7	472.9
157.5°	487.8	487.6	487.4	487.3	487.0	486.8	486.6	486.4	486.6	486.8	487.0
160°	496.2	496.1	496.1	495.9	495.7	495.5	495.3	495.1	495.3	495.5	495.7
162.5°	503.5	503.4	503.3	503.2	503.2	503.1	503.1	503.0	503.1	503.1	503.2
165°	513.2	513.2	513.2	513.3	513.3	513.4	513.5	513.7	513.5	513.4	513.3
167.5°	521.1	521.1	521.1	521.3	521.6	521.9	522.2	522.4	522.2	521.9	521.6
170°	525.5	525.7	525.8	526.0	526.2	526.6	526.9	527.2	526.9	526.6	526.2
172.5°	528.9	528.9	529.0	529.3	529.5	529.8	530.1	530.4	530.1	529.8	529.5
175°	532.6	532.7	533.0	533.2	533.5	533.8	534.1	534.4	534.1	533.8	533.5
177.5°	534.6	534.7	534.9	535.0	535.3	535.5	535.8	536.1	535.8	535.5	535.3
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	5.5	5.6	5.6	6.1	6.5	6.7	6.7	6.4	6.3	6.3	6.1
90°	5.3	7.0	9.2	11.4	13.6	15.8	15.6	15.4	15.2	15.0	15.0
92.5°	11.6	12.3	12.8	13.3	13.9	14.3	14.4	14.4	14.5	14.5	14.6
95°	27.5	28.1	28.3	28.5	28.7	28.9	28.9	28.9	28.9	28.9	28.8
97.5°	46.4	47.1	47.5	47.8	48.2	48.6	48.6	48.6	48.6	48.6	48.6
100°	60.6	61.2	61.5	61.7	62.0	62.3	62.3	62.3	62.3	62.3	62.3
102.5°	75.1	75.7	76.0	76.4	76.8	77.2	77.2	77.3	77.4	77.5	77.5
105°	98.3	98.5	98.8	98.9	99.2	99.4	99.6	99.8	100.0	100.2	100.3
107.5°	123.7	123.9	123.9	123.9	123.9	123.9	124.0	124.1	124.1	124.2	124.0
110°	140.2	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.4



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	157.6	157.8	157.7	157.6	157.6	157.5	157.2	157.0	156.8	156.5	156.3
115°	183.1	183.3	183.1	182.9	182.7	182.5	182.4	182.3	182.2	182.1	181.9
117.5°	209.4	209.5	209.0	208.3	207.8	207.2	207.0	206.8	206.5	206.3	206.0
120°	226.4	226.4	225.5	224.7	223.9	223.2	223.2	223.2	223.2	223.2	223.0
122.5°	242.6	242.7	242.2	241.6	241.1	240.5	240.3	240.0	239.8	239.6	239.3
125°	266.5	266.8	266.5	266.3	265.9	265.6	265.3	265.0	264.7	264.4	264.2
127.5°	291.0	291.4	291.1	290.7	290.4	290.0	289.6	289.3	288.9	288.6	288.2
130°	306.5	307.0	306.9	306.7	306.5	306.3	306.1	305.9	305.7	305.5	305.1
132.5°	322.2	322.7	322.8	322.8	322.9	322.9	322.5	322.0	321.5	321.2	320.8
135°	344.6	345.2	345.4	345.6	345.9	346.0	345.9	345.9	345.7	345.6	345.4
137.5°	367.2	367.7	368.0	368.3	368.5	368.8	368.7	368.6	368.5	368.4	368.2
140°	381.3	382.0	382.5	382.9	383.5	384.0	384.0	384.0	384.0	384.0	383.8
142.5°	395.7	396.3	396.7	397.0	397.4	397.7	397.8	397.8	397.9	398.0	397.8
145°	415.7	416.4	416.9	417.6	418.2	418.7	418.8	419.0	419.1	419.1	419.0
147.5°	434.7	435.4	435.8	436.2	436.6	437.0	437.2	437.4	437.7	437.9	437.8
150°	446.5	446.9	447.3	447.7	448.1	448.6	448.9	449.2	449.5	449.8	449.8
152.5°	457.6	458.2	458.7	459.1	459.6	460.2	460.5	460.9	461.3	461.7	461.7
155°	473.2	473.6	473.9	474.2	474.4	474.8	475.3	475.8	476.3	476.8	476.9
157.5°	487.3	487.4	487.6	487.8	488.0	488.1	488.9	489.5	490.2	490.9	491.0
160°	495.9	496.1	496.1	496.2	496.4	496.5	497.1	497.6	498.3	498.8	499.0
162.5°	503.2	503.3	503.4	503.5	503.6	503.7	504.4	505.0	505.7	506.4	506.5
165°	513.3	513.2	513.2	513.2	513.2	513.2	513.9	514.6	515.3	515.9	516.1
167.5°	521.3	521.1	521.1	521.1	521.0	521.0	521.7	522.4	523.2	523.9	523.9
170°	526.0	525.8	525.7	525.5	525.5	525.4	526.1	526.8	527.5	528.1	528.2
172.5°	529.3	529.0	528.9	528.9	528.7	528.6	529.3	530.0	530.8	531.4	531.5
175°	533.2	533.0	532.7	532.6	532.3	532.1	532.8	533.5	534.2	535.0	535.0
177.5°	535.0	534.9	534.7	534.6	534.4	534.2	534.7	535.2	535.7	536.1	536.1
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	6.1	5.9	6.1	5.9	6.1	5.9	6.1	6.1	6.3	6.3	6.4
90°	15.1	15.1	15.3	15.4	15.3	15.1	15.1	15.0	15.0	15.2	15.4
92.5°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.4
95°	28.6	28.4	28.2	28.0	28.2	28.4	28.6	28.8	28.9	28.9	28.9
97.5°	48.6	48.6	48.6	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6
100°	62.2	62.1	62.0	61.9	62.0	62.1	62.2	62.3	62.3	62.3	62.3
102.5°	77.4	77.2	77.2	77.1	77.2	77.2	77.4	77.5	77.5	77.4	77.3
105°	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.2	100.0	99.8
107.5°	123.5	123.1	122.6	122.2	122.6	123.1	123.5	124.0	124.2	124.1	124.1
110°	140.1	139.7	139.4	139.1	139.4	139.7	140.1	140.4	140.5	140.5	140.5



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	156.1	155.8	155.6	155.4	155.6	155.8	156.1	156.3	156.5	156.8	157.0
115°	181.6	181.3	181.0	180.7	181.0	181.3	181.6	181.9	182.1	182.2	182.3
117.5°	205.7	205.4	205.1	204.8	205.1	205.4	205.7	206.0	206.3	206.5	206.8
120°	222.7	222.4	222.1	221.8	222.1	222.4	222.7	223.0	223.2	223.2	223.2
122.5°	239.1	238.8	238.7	238.4	238.7	238.8	239.1	239.3	239.6	239.8	240.0
125°	264.1	264.0	263.9	263.8	263.9	264.0	264.1	264.2	264.4	264.7	265.0
127.5°	287.9	287.6	287.2	286.9	287.2	287.6	287.9	288.2	288.6	288.9	289.3
130°	304.8	304.4	304.0	303.6	304.0	304.4	304.8	305.1	305.5	305.7	305.9
132.5°	320.4	320.1	319.8	319.5	319.8	320.1	320.4	320.8	321.2	321.5	322.0
135°	345.2	344.8	344.5	344.2	344.5	344.8	345.2	345.4	345.6	345.7	345.9
137.5°	367.8	367.4	367.0	366.6	367.0	367.4	367.8	368.2	368.4	368.5	368.6
140°	383.3	382.9	382.5	382.1	382.5	382.9	383.3	383.8	384.0	384.0	384.0
142.5°	397.4	397.0	396.6	396.2	396.6	397.0	397.4	397.8	398.0	397.9	397.8
145°	418.6	418.2	417.8	417.4	417.8	418.2	418.6	419.0	419.1	419.1	419.0
147.5°	437.4	437.0	436.7	436.3	436.7	437.0	437.4	437.8	437.9	437.7	437.4
150°	449.5	449.2	448.9	448.6	448.9	449.2	449.5	449.8	449.8	449.5	449.2
152.5°	461.3	460.9	460.5	460.2	460.5	460.9	461.3	461.7	461.7	461.3	460.9
155°	476.6	476.3	475.9	475.7	475.9	476.3	476.6	476.9	476.8	476.3	475.8
157.5°	490.5	490.0	489.6	489.0	489.6	490.0	490.5	491.0	490.9	490.2	489.5
160°	498.6	498.2	497.7	497.3	497.7	498.2	498.6	499.0	498.8	498.3	497.6
162.5°	506.0	505.6	505.1	504.6	505.1	505.6	506.0	506.5	506.4	505.7	505.0
165°	515.6	515.1	514.6	514.0	514.6	515.1	515.6	516.1	515.9	515.3	514.6
167.5°	523.4	522.9	522.4	521.8	522.4	522.9	523.4	523.9	523.9	523.2	522.4
170°	527.6	527.0	526.4	525.9	526.4	527.0	527.6	528.2	528.1	527.5	526.8
172.5°	530.9	530.3	529.7	529.1	529.7	530.3	530.9	531.5	531.4	530.8	530.0
175°	534.4	533.8	533.2	532.6	533.2	533.8	534.4	535.0	535.0	534.2	533.5
177.5°	535.7	535.2	534.7	534.2	534.7	535.2	535.7	536.1	536.1	535.7	535.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	6.7	6.7	6.5	6.1	5.6	5.6	5.5	5.5	5.8	6.3	7.0
90°	15.6	15.8	13.6	11.4	9.2	7.0	5.3	4.0	2.9	1.7	0.5
92.5°	14.4	14.3	13.9	13.3	12.8	12.3	11.6	10.7	9.8	9.0	8.1
95°	28.9	28.9	28.7	28.5	28.3	28.1	27.5	26.5	25.5	24.5	23.5
97.5°	48.6	48.6	48.2	47.8	47.5	47.1	46.4	45.6	44.7	43.8	42.9
100°	62.3	62.3	62.0	61.7	61.5	61.2	60.6	59.8	58.9	58.1	57.4
102.5°	77.2	77.2	76.8	76.4	76.0	75.7	75.1	74.5	73.8	73.2	72.6
105°	99.6	99.4	99.2	98.9	98.8	98.5	98.3	98.0	97.8	97.4	97.1
107.5°	124.0	123.9	123.9	123.9	123.9	123.9	123.7	123.2	122.8	122.3	121.9
110°	140.5	140.5	140.5	140.5	140.5	140.5	140.2	139.6	138.9	138.4	137.8



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.2	157.5	157.6	157.6	157.7	157.8	157.6	156.9	156.3	155.7	155.1
115°	182.4	182.5	182.7	182.9	183.1	183.3	183.1	182.5	181.9	181.3	180.7
117.5°	207.0	207.2	207.8	208.3	209.0	209.5	209.4	208.6	207.8	207.0	206.2
120°	223.2	223.2	223.9	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2
122.5°	240.3	240.5	241.1	241.6	242.2	242.7	242.6	241.6	240.7	239.6	238.7
125°	265.3	265.6	265.9	266.3	266.5	266.8	266.5	265.6	264.7	263.8	262.9
127.5°	289.6	290.0	290.4	290.7	291.1	291.4	291.0	289.9	288.8	287.6	286.5
130°	306.1	306.3	306.5	306.7	306.9	307.0	306.5	305.2	303.9	302.6	301.3
132.5°	322.5	322.9	322.9	322.8	322.8	322.7	322.2	321.2	320.0	319.0	317.9
135°	345.9	346.0	345.9	345.6	345.4	345.2	344.6	343.5	342.4	341.3	340.2
137.5°	368.7	368.8	368.5	368.3	368.0	367.7	367.2	366.3	365.4	364.5	363.5
140°	384.0	384.0	383.5	382.9	382.5	382.0	381.3	380.3	379.5	378.6	377.6
142.5°	397.8	397.7	397.4	397.0	396.7	396.3	395.7	394.8	394.0	393.0	392.1
145°	418.8	418.7	418.2	417.6	416.9	416.4	415.7	415.0	414.3	413.6	412.9
147.5°	437.2	437.0	436.6	436.2	435.8	435.4	434.7	434.0	433.1	432.2	431.4
150°	448.9	448.6	448.1	447.7	447.3	446.9	446.5	445.8	445.3	444.7	444.1
152.5°	460.5	460.2	459.6	459.1	458.7	458.2	457.6	457.1	456.5	455.9	455.3
155°	475.3	474.8	474.4	474.2	473.9	473.6	473.2	472.9	472.7	472.4	472.1
157.5°	488.9	488.1	488.0	487.8	487.6	487.4	487.3	487.0	486.8	486.6	486.4
160°	497.1	496.5	496.4	496.2	496.1	496.1	495.9	495.7	495.5	495.3	495.1
162.5°	504.4	503.7	503.6	503.5	503.4	503.3	503.2	503.2	503.1	503.1	503.0
165°	513.9	513.2	513.2	513.2	513.2	513.2	513.3	513.3	513.4	513.5	513.7
167.5°	521.7	521.0	521.0	521.1	521.1	521.1	521.3	521.6	521.9	522.2	522.4
170°	526.1	525.4	525.5	525.5	525.7	525.8	526.0	526.2	526.6	526.9	527.2
172.5°	529.3	528.6	528.7	528.9	528.9	529.0	529.3	529.5	529.8	530.1	530.4
175°	532.8	532.1	532.3	532.6	532.7	533.0	533.2	533.5	533.8	534.1	534.4
177.5°	534.7	534.2	534.4	534.6	534.7	534.9	535.0	535.3	535.5	535.8	536.1
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	6.0	5.1	5.1	5.1	5.6	6.1	6.3	6.7	7.4	7.1	7.4
90°	1.7	2.9	4.0	5.3	7.0	9.2	11.4	13.6	15.8	15.6	15.4
92.5°	9.0	9.8	10.7	11.6	12.3	12.8	13.3	13.9	14.3	14.4	14.4
95°	24.5	25.5	26.5	27.5	28.1	28.3	28.5	28.7	28.9	28.9	28.9
97.5°	43.8	44.7	45.6	46.4	47.1	47.5	47.8	48.2	48.6	48.6	48.6
100°	58.1	58.9	59.8	60.6	61.2	61.5	61.7	62.0	62.3	62.3	62.3
102.5°	73.2	73.8	74.5	75.1	75.7	76.0	76.4	76.8	77.2	77.2	77.3
105°	97.4	97.8	98.0	98.3	98.5	98.8	98.9	99.2	99.4	99.6	99.8
107.5°	122.3	122.8	123.2	123.7	123.9	123.9	123.9	123.9	123.9	124.0	124.1
110°	138.4	138.9	139.6	140.2	140.5	140.5	140.5	140.5	140.5	140.5	140.5



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	155.7	156.3	156.9	157.6	157.8	157.7	157.6	157.6	157.5	157.2	157.0
115°	181.3	181.9	182.5	183.1	183.3	183.1	182.9	182.7	182.5	182.4	182.3
117.5°	207.0	207.8	208.6	209.4	209.5	209.0	208.3	207.8	207.2	207.0	206.8
120°	223.9	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2	223.2	223.2
122.5°	239.6	240.7	241.6	242.6	242.7	242.2	241.6	241.1	240.5	240.3	240.0
125°	263.8	264.7	265.6	266.5	266.8	266.5	266.3	265.9	265.6	265.3	265.0
127.5°	287.6	288.8	289.9	291.0	291.4	291.1	290.7	290.4	290.0	289.6	289.3
130°	302.6	303.9	305.2	306.5	307.0	306.9	306.7	306.5	306.3	306.1	305.9
132.5°	319.0	320.0	321.2	322.2	322.7	322.8	322.8	322.9	322.9	322.5	322.0
135°	341.3	342.4	343.5	344.6	345.2	345.4	345.6	345.9	346.0	345.9	345.9
137.5°	364.5	365.4	366.3	367.2	367.7	368.0	368.3	368.5	368.8	368.7	368.6
140°	378.6	379.5	380.3	381.3	382.0	382.5	382.9	383.5	384.0	384.0	384.0
142.5°	393.0	394.0	394.8	395.7	396.3	396.7	397.0	397.4	397.7	397.8	397.8
145°	413.6	414.3	415.0	415.7	416.4	416.9	417.6	418.2	418.7	418.8	419.0
147.5°	432.2	433.1	434.0	434.7	435.4	435.8	436.2	436.6	437.0	437.2	437.4
150°	444.7	445.3	445.8	446.5	446.9	447.3	447.7	448.1	448.6	448.9	449.2
152.5°	455.9	456.5	457.1	457.6	458.2	458.7	459.1	459.6	460.2	460.5	460.9
155°	472.4	472.7	472.9	473.2	473.6	473.9	474.2	474.4	474.8	475.3	475.8
157.5°	486.6	486.8	487.0	487.3	487.4	487.6	487.8	488.0	488.1	488.9	489.5
160°	495.3	495.5	495.7	495.9	496.1	496.1	496.2	496.4	496.5	497.1	497.6
162.5°	503.1	503.1	503.2	503.2	503.3	503.4	503.5	503.6	503.7	504.4	505.0
165°	513.5	513.4	513.3	513.3	513.2	513.2	513.2	513.2	513.2	513.9	514.6
167.5°	522.2	521.9	521.6	521.3	521.1	521.1	521.1	521.0	521.0	521.7	522.4
170°	526.9	526.6	526.2	526.0	525.8	525.7	525.5	525.5	525.4	526.1	526.8
172.5°	530.1	529.8	529.5	529.3	529.0	528.9	528.9	528.7	528.6	529.3	530.0
175°	534.1	533.8	533.5	533.2	533.0	532.7	532.6	532.3	532.1	532.8	533.5
177.5°	535.8	535.5	535.3	535.0	534.9	534.7	534.6	534.4	534.2	534.7	535.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

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°	7.1	7.1	7.1	7.1	7.1	7.1	6.9
90°	15.2	15.0	15.0	15.1	15.1	15.3	15.4
92.5°	14.5	14.5	14.6	14.6	14.6	14.7	14.7
95°	28.9	28.9	28.8	28.6	28.4	28.2	28.0
97.5°	48.6	48.6	48.6	48.6	48.6	48.6	48.5
100°	62.3	62.3	62.3	62.2	62.1	62.0	61.9
102.5°	77.4	77.5	77.5	77.4	77.2	77.2	77.1
105°	100.0	100.2	100.3	100.3	100.3	100.3	100.3
107.5°	124.1	124.2	124.0	123.5	123.1	122.6	122.2
110°	140.5	140.5	140.4	140.1	139.7	139.4	139.1



TEST NUMBER: P331652-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	156.8	156.5	156.3	156.1	155.8	155.6	155.4
115°	182.2	182.1	181.9	181.6	181.3	181.0	180.7
117.5°	206.5	206.3	206.0	205.7	205.4	205.1	204.8
120°	223.2	223.2	223.0	222.7	222.4	222.1	221.8
122.5°	239.8	239.6	239.3	239.1	238.8	238.7	238.4
125°	264.7	264.4	264.2	264.1	264.0	263.9	263.8
127.5°	288.9	288.6	288.2	287.9	287.6	287.2	286.9
130°	305.7	305.5	305.1	304.8	304.4	304.0	303.6
132.5°	321.5	321.2	320.8	320.4	320.1	319.8	319.5
135°	345.7	345.6	345.4	345.2	344.8	344.5	344.2
137.5°	368.5	368.4	368.2	367.8	367.4	367.0	366.6
140°	384.0	384.0	383.8	383.3	382.9	382.5	382.1
142.5°	397.9	398.0	397.8	397.4	397.0	396.6	396.2
145°	419.1	419.1	419.0	418.6	418.2	417.8	417.4
147.5°	437.7	437.9	437.8	437.4	437.0	436.7	436.3
150°	449.5	449.8	449.8	449.5	449.2	448.9	448.6
152.5°	461.3	461.7	461.7	461.3	460.9	460.5	460.2
155°	476.3	476.8	476.9	476.6	476.3	475.9	475.7
157.5°	490.2	490.9	491.0	490.5	490.0	489.6	489.0
160°	498.3	498.8	499.0	498.6	498.2	497.7	497.3
162.5°	505.7	506.4	506.5	506.0	505.6	505.1	504.6
165°	515.3	515.9	516.1	515.6	515.1	514.6	514.0
167.5°	523.2	523.9	523.9	523.4	522.9	522.4	521.8
170°	527.5	528.1	528.2	527.6	527.0	526.4	525.9
172.5°	530.8	531.4	531.5	530.9	530.3	529.7	529.1
175°	534.2	535.0	535.0	534.4	533.8	533.2	532.6
177.5°	535.7	536.1	536.1	535.7	535.2	534.7	534.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3

(END OF REPORT)