

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: P331651-927

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331651-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
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-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3147.2 lumens
Efficiency: N/A
Efficacy: 95.9 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

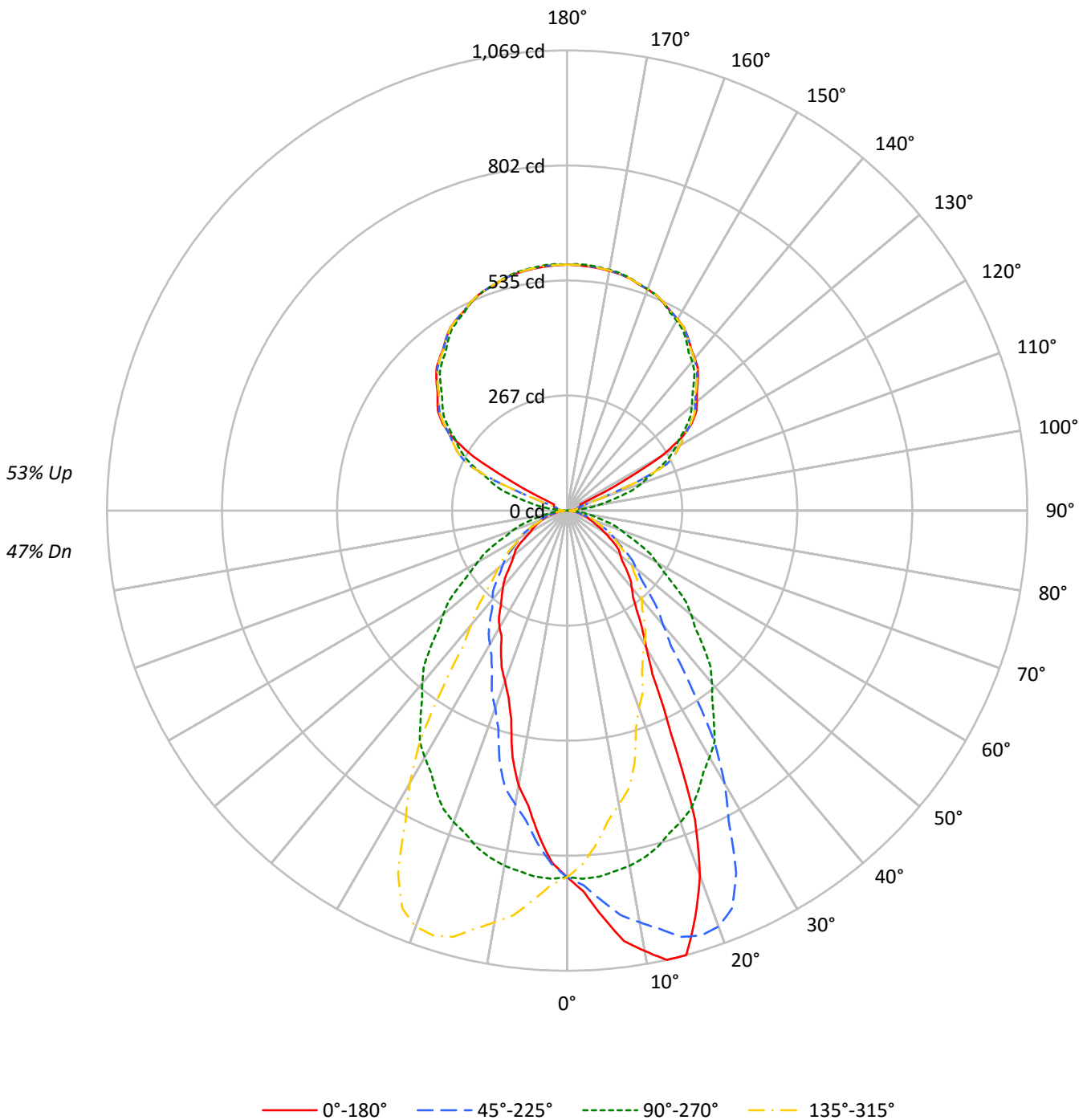
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40	35
3	82	73	67	61	75	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	69	61	54	49	52	47	43	43	40	37	35	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	32	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	33	39	34	30	33	29	26	27	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	23	25	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	20	22	19	17	15

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	2.6
10°-20°	224.9	7.1
20°-30°	289.8	9.2
30°-40°	275.4	8.8
40°-50°	235.9	7.5
50°-60°	179.7	5.7
60°-70°	113.6	3.6
70°-80°	56.7	1.8
80°-90°	16.2	0.5
90°-100°	19.1	0.6
100°-110°	69.9	2.2
110°-120°	186.8	5.9
120°-130°	308.4	9.8
130°-140°	328.0	10.4
140°-150°	304.8	9.7
150°-160°	245.1	7.8
160°-170°	157.9	5.0
170°-180°	54.4	1.7
0°-30°	595.4	18.9
0°-40°	870.8	27.7
0°-60°	1286.4	40.9
0°-90°	1472.8	46.8
90°-120°	275.8	8.8
90°-150°	1217.0	38.7
90°-180°	1674.0	53.2
0°-180°	3147.2	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°	11	0	11	0	11	5
95°	18	27	18	27	18	17
105°	31	126	31	126	31	33
115°	34	238	34	238	34	85
125°	354	336	354	336	354	306
135°	430	416	430	416	430	331
145°	490	482	490	482	490	306
155°	532	531	532	531	532	245
165°	558	560	558	560	558	158
175°	569	573	569	573	569	54
180°	571	571	571	571	571	



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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°	6.0	6.3	6.2	6.2	6.1	6.0	5.9	6.1	5.8	5.9	5.5
90°	11.2	11.0	10.8	10.6	10.5	10.1	9.7	9.2	8.7	8.2	7.5
92.5°	11.2	11.1	10.9	10.9	10.7	10.5	10.3	10.1	9.8	9.6	9.2
95°	17.7	17.9	18.0	18.1	18.1	18.0	17.5	17.0	16.6	16.2	15.4
97.5°	23.8	23.6	23.5	23.4	23.3	23.1	22.7	22.3	21.9	21.5	20.1
100°	27.7	27.5	27.3	27.2	26.9	26.5	25.7	25.0	24.3	23.5	22.0
102.5°	29.7	29.4	29.2	28.9	28.7	28.0	27.1	26.1	25.2	24.2	37.3
105°	31.4	31.1	30.7	30.3	29.9	29.2	28.3	27.3	26.2	25.2	50.3
107.5°	32.3	31.9	31.6	31.2	30.9	31.2	32.2	33.3	34.3	35.3	65.4
110°	32.6	32.3	31.9	31.5	31.2	35.6	44.8	53.9	63.1	72.3	98.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	33.0	32.7	32.4	32.1	31.8	48.4	81.9	115.4	148.9	182.5	189.0
115°	33.9	40.5	47.1	53.7	60.4	84.9	127.5	170.0	212.5	255.1	252.8
117.5°	138.4	160.2	181.9	203.6	225.4	241.4	251.7	262.0	272.3	282.5	281.0
120°	252.2	264.6	277.0	289.4	301.8	307.4	306.3	305.2	304.1	303.0	301.3
122.5°	314.7	317.1	319.5	321.9	324.3	325.2	324.6	323.8	323.2	322.6	320.8
125°	353.5	353.2	352.9	352.7	352.4	351.9	351.3	350.6	350.0	349.4	347.6
127.5°	378.0	377.9	377.9	377.8	377.7	377.2	376.3	375.3	374.4	373.5	372.2
130°	393.2	393.2	393.3	393.4	393.6	393.1	392.1	391.0	390.1	389.0	388.0
132.5°	408.1	408.1	408.2	408.3	408.4	408.1	407.2	406.3	405.4	404.6	403.5
135°	429.5	429.8	429.9	430.1	430.3	429.9	429.0	428.1	427.1	426.2	425.4
137.5°	449.2	449.5	449.7	450.0	450.4	450.1	449.2	448.3	447.4	446.5	445.5
140°	461.4	461.8	462.3	462.7	463.2	463.0	462.2	461.4	460.6	459.7	458.7
142.5°	473.2	473.7	474.2	474.7	475.2	475.0	474.2	473.5	472.7	472.0	470.8
145°	489.9	490.4	490.8	491.3	491.7	491.6	491.0	490.4	489.7	489.1	487.5
147.5°	504.5	504.9	505.3	505.7	506.0	506.0	505.6	505.1	504.6	504.1	502.6
150°	513.5	513.9	514.4	514.8	515.3	515.2	514.7	514.1	513.6	513.0	511.6
152.5°	521.1	521.7	522.3	522.9	523.5	523.6	523.0	522.4	521.9	521.3	519.9
155°	531.6	532.4	533.1	533.9	534.6	534.7	534.2	533.6	533.1	532.5	531.4
157.5°	541.3	542.0	542.7	543.4	544.2	544.2	543.6	543.0	542.3	541.8	541.0
160°	546.9	547.6	548.3	548.9	549.5	549.5	549.0	548.4	548.0	547.4	546.8
162.5°	551.6	552.4	553.2	554.0	554.8	554.8	554.2	553.6	552.9	552.3	551.8
165°	558.5	559.2	559.8	560.5	561.1	561.1	560.5	559.8	559.2	558.5	558.3
167.5°	562.9	563.7	564.6	565.4	566.3	566.3	565.7	565.0	564.4	563.7	563.5
170°	565.5	566.4	567.2	568.0	568.9	568.9	568.3	567.7	567.0	566.4	566.2
172.5°	567.5	568.4	569.2	570.1	570.8	570.9	570.3	569.7	569.0	568.4	568.2
175°	569.3	570.2	571.1	572.0	573.0	573.1	572.4	571.8	571.2	570.5	570.3
177.5°	570.4	571.0	571.6	572.4	573.0	573.1	572.6	572.0	571.6	571.0	570.9
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



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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°	5.4	5.5	5.3	4.9	4.9	5.0	5.9	7.0	6.2	5.7	5.4
90°	6.8	6.1	5.3	4.4	3.4	2.5	1.4	0.4	1.4	2.5	3.4
92.5°	8.9	8.5	8.2	8.0	8.1	8.2	8.2	8.3	8.2	8.2	8.1
95°	14.8	14.2	13.5	14.7	17.7	20.8	23.8	26.9	23.8	20.8	17.7
97.5°	18.6	17.1	15.6	19.2	27.7	36.3	44.8	53.3	44.8	36.3	27.7
100°	20.4	18.9	17.3	22.8	35.4	48.0	60.6	73.2	60.6	48.0	35.4
102.5°	50.4	63.5	76.4	84.4	87.0	89.7	92.4	95.0	92.4	89.7	87.0
105°	75.4	100.4	125.6	136.7	134.0	131.2	128.4	125.6	128.4	131.2	134.0
107.5°	95.5	125.6	155.6	169.5	167.3	165.1	162.9	160.7	162.9	165.1	167.3
110°	125.5	152.0	178.6	190.8	188.9	187.0	185.1	183.2	185.1	187.0	188.9



TEST NUMBER: P331651-927

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	195.6	202.2	208.7	211.1	209.5	207.7	206.0	204.3	206.0	207.7	209.5
115°	250.5	248.2	245.9	244.0	242.4	240.8	239.2	237.7	239.2	240.8	242.4
117.5°	279.4	277.8	276.2	274.6	272.8	271.1	269.3	267.6	269.3	271.1	272.8
120°	299.8	298.1	296.4	294.9	293.5	292.2	290.7	289.4	290.7	292.2	293.5
122.5°	318.9	317.1	315.4	313.7	312.3	310.9	309.3	307.9	309.3	310.9	312.3
125°	345.9	344.1	342.4	340.9	339.7	338.5	337.3	336.1	337.3	338.5	339.7
127.5°	370.9	369.6	368.3	366.9	365.6	364.3	363.0	361.6	363.0	364.3	365.6
130°	387.0	386.0	385.0	383.7	382.3	380.8	379.3	377.9	379.3	380.8	382.3
132.5°	402.6	401.6	400.5	399.4	398.2	396.9	395.6	394.4	395.6	396.9	398.2
135°	424.6	423.7	422.9	421.8	420.3	418.8	417.4	415.9	417.4	418.8	420.3
137.5°	444.7	443.7	442.8	441.7	440.7	439.7	438.6	437.7	438.6	439.7	440.7
140°	457.7	456.7	455.7	454.8	454.1	453.4	452.6	451.9	452.6	453.4	454.1
142.5°	469.6	468.5	467.3	466.4	465.7	465.1	464.5	463.7	464.5	465.1	465.7
145°	485.9	484.4	482.8	482.1	482.2	482.3	482.4	482.4	482.4	482.3	482.2
147.5°	501.1	499.5	498.0	497.3	497.7	498.0	498.4	498.8	498.4	498.0	497.7
150°	510.1	508.7	507.2	506.8	507.4	508.0	508.7	509.3	508.7	508.0	507.4
152.5°	518.6	517.1	515.7	515.4	516.1	516.8	517.5	518.2	517.5	516.8	516.1
155°	530.3	529.2	528.1	527.9	528.8	529.6	530.4	531.2	530.4	529.6	528.8
157.5°	540.2	539.4	538.7	538.6	539.3	540.0	540.7	541.4	540.7	540.0	539.3
160°	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4	546.8	546.3	545.7
162.5°	551.4	550.9	550.4	550.5	551.0	551.5	552.1	552.6	552.1	551.5	551.0
165°	557.9	557.7	557.5	557.5	558.1	558.6	559.2	559.8	559.2	558.6	558.1
167.5°	563.2	562.9	562.7	562.8	563.4	564.0	564.5	565.1	564.5	564.0	563.4
170°	566.0	565.9	565.6	565.9	566.4	567.0	567.5	568.0	567.5	567.0	566.4
172.5°	568.0	567.8	567.6	567.8	568.4	568.9	569.5	570.1	569.5	568.9	568.4
175°	570.1	570.0	569.8	570.0	570.7	571.3	572.0	572.6	572.0	571.3	570.7
177.5°	570.8	570.8	570.7	570.9	571.5	572.0	572.5	573.0	572.5	572.0	571.5
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331651-927

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

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°	5.4	5.3	5.0	5.1	5.3	5.2	5.3	5.1	5.2	5.3	5.1
90°	4.4	5.3	6.1	6.8	7.5	8.2	8.7	9.2	9.7	10.1	10.5
92.5°	8.0	8.2	8.5	8.9	9.2	9.6	9.8	10.1	10.3	10.5	10.7
95°	14.7	13.5	14.2	14.8	15.4	16.2	16.6	17.0	17.5	18.0	18.1
97.5°	19.2	15.6	17.1	18.6	20.1	21.5	21.9	22.3	22.7	23.1	23.3
100°	22.8	17.3	18.9	20.4	22.0	23.5	24.3	25.0	25.7	26.5	26.9
102.5°	84.4	76.4	63.5	50.4	37.3	24.2	25.2	26.1	27.1	28.0	28.7
105°	136.7	125.6	100.4	75.4	50.3	25.2	26.2	27.3	28.3	29.2	29.9
107.5°	169.5	155.6	125.6	95.5	65.4	35.3	34.3	33.3	32.2	31.2	30.9
110°	190.8	178.6	152.0	125.5	98.9	72.3	63.1	53.9	44.8	35.6	31.2



TEST NUMBER: P331651-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	211.1	208.7	202.2	195.6	189.0	182.5	148.9	115.4	81.9	48.4	31.8
115°	244.0	245.9	248.2	250.5	252.8	255.1	212.5	170.0	127.5	84.9	60.4
117.5°	274.6	276.2	277.8	279.4	281.0	282.5	272.3	262.0	251.7	241.4	225.4
120°	294.9	296.4	298.1	299.8	301.3	303.0	304.1	305.2	306.3	307.4	301.8
122.5°	313.7	315.4	317.1	318.9	320.8	322.6	323.2	323.8	324.6	325.2	324.3
125°	340.9	342.4	344.1	345.9	347.6	349.4	350.0	350.6	351.3	351.9	352.4
127.5°	366.9	368.3	369.6	370.9	372.2	373.5	374.4	375.3	376.3	377.2	377.7
130°	383.7	385.0	386.0	387.0	388.0	389.0	390.1	391.0	392.1	393.1	393.6
132.5°	399.4	400.5	401.6	402.6	403.5	404.6	405.4	406.3	407.2	408.1	408.4
135°	421.8	422.9	423.7	424.6	425.4	426.2	427.1	428.1	429.0	429.9	430.3
137.5°	441.7	442.8	443.7	444.7	445.5	446.5	447.4	448.3	449.2	450.1	450.4
140°	454.8	455.7	456.7	457.7	458.7	459.7	460.6	461.4	462.2	463.0	463.2
142.5°	466.4	467.3	468.5	469.6	470.8	472.0	472.7	473.5	474.2	475.0	475.2
145°	482.1	482.8	484.4	485.9	487.5	489.1	489.7	490.4	491.0	491.6	491.7
147.5°	497.3	498.0	499.5	501.1	502.6	504.1	504.6	505.1	505.6	506.0	506.0
150°	506.8	507.2	508.7	510.1	511.6	513.0	513.6	514.1	514.7	515.2	515.3
152.5°	515.4	515.7	517.1	518.6	519.9	521.3	521.9	522.4	523.0	523.6	523.5
155°	527.9	528.1	529.2	530.3	531.4	532.5	533.1	533.6	534.2	534.7	534.6
157.5°	538.6	538.7	539.4	540.2	541.0	541.8	542.3	543.0	543.6	544.2	544.2
160°	545.2	545.2	545.7	546.3	546.8	547.4	548.0	548.4	549.0	549.5	549.5
162.5°	550.5	550.4	550.9	551.4	551.8	552.3	552.9	553.6	554.2	554.8	554.8
165°	557.5	557.5	557.7	557.9	558.3	558.5	559.2	559.8	560.5	561.1	561.1
167.5°	562.8	562.7	562.9	563.2	563.5	563.7	564.4	565.0	565.7	566.3	566.3
170°	565.9	565.6	565.9	566.0	566.2	566.4	567.0	567.7	568.3	568.9	568.9
172.5°	567.8	567.6	567.8	568.0	568.2	568.4	569.0	569.7	570.3	570.9	570.8
175°	570.0	569.8	570.0	570.1	570.3	570.5	571.2	571.8	572.4	573.1	573.0
177.5°	570.9	570.7	570.8	570.8	570.9	571.0	571.6	572.0	572.6	573.1	573.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331651-927

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

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°	5.2	5.0	5.3	5.1	5.3	5.0	5.2	5.1	5.3	5.2	5.1
90°	10.6	10.8	11.0	11.2	11.0	10.8	10.6	10.5	10.1	9.7	9.2
92.5°	10.9	10.9	11.1	11.2	11.1	10.9	10.9	10.7	10.5	10.3	10.1
95°	18.1	18.0	17.9	17.7	17.9	18.0	18.1	18.1	18.0	17.5	17.0
97.5°	23.4	23.5	23.6	23.8	23.6	23.5	23.4	23.3	23.1	22.7	22.3
100°	27.2	27.3	27.5	27.7	27.5	27.3	27.2	26.9	26.5	25.7	25.0
102.5°	28.9	29.2	29.4	29.7	29.4	29.2	28.9	28.7	28.0	27.1	26.1
105°	30.3	30.7	31.1	31.4	31.1	30.7	30.3	29.9	29.2	28.3	27.3
107.5°	31.2	31.6	31.9	32.3	31.9	31.6	31.2	30.9	31.2	32.2	33.3
110°	31.5	31.9	32.3	32.6	32.3	31.9	31.5	31.2	35.6	44.8	53.9



TEST NUMBER: P331651-927

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	32.1	32.4	32.7	33.0	32.7	32.4	32.1	31.8	48.4	81.9	115.4
115°	53.7	47.1	40.5	33.9	40.5	47.1	53.7	60.4	84.9	127.5	170.0
117.5°	203.6	181.9	160.2	138.4	160.2	181.9	203.6	225.4	241.4	251.7	262.0
120°	289.4	277.0	264.6	252.2	264.6	277.0	289.4	301.8	307.4	306.3	305.2
122.5°	321.9	319.5	317.1	314.7	317.1	319.5	321.9	324.3	325.2	324.6	323.8
125°	352.7	352.9	353.2	353.5	353.2	352.9	352.7	352.4	351.9	351.3	350.6
127.5°	377.8	377.9	377.9	378.0	377.9	377.9	377.8	377.7	377.2	376.3	375.3
130°	393.4	393.3	393.2	393.2	393.2	393.3	393.4	393.6	393.1	392.1	391.0
132.5°	408.3	408.2	408.1	408.1	408.1	408.2	408.3	408.4	408.1	407.2	406.3
135°	430.1	429.9	429.8	429.5	429.8	429.9	430.1	430.3	429.9	429.0	428.1
137.5°	450.0	449.7	449.5	449.2	449.5	449.7	450.0	450.4	450.1	449.2	448.3
140°	462.7	462.3	461.8	461.4	461.8	462.3	462.7	463.2	463.0	462.2	461.4
142.5°	474.7	474.2	473.7	473.2	473.7	474.2	474.7	475.2	475.0	474.2	473.5
145°	491.3	490.8	490.4	489.9	490.4	490.8	491.3	491.7	491.6	491.0	490.4
147.5°	505.7	505.3	504.9	504.5	504.9	505.3	505.7	506.0	506.0	505.6	505.1
150°	514.8	514.4	513.9	513.5	513.9	514.4	514.8	515.3	515.2	514.7	514.1
152.5°	522.9	522.3	521.7	521.1	521.7	522.3	522.9	523.5	523.6	523.0	522.4
155°	533.9	533.1	532.4	531.6	532.4	533.1	533.9	534.6	534.7	534.2	533.6
157.5°	543.4	542.7	542.0	541.3	542.0	542.7	543.4	544.2	544.2	543.6	543.0
160°	548.9	548.3	547.6	546.9	547.6	548.3	548.9	549.5	549.5	549.0	548.4
162.5°	554.0	553.2	552.4	551.6	552.4	553.2	554.0	554.8	554.8	554.2	553.6
165°	560.5	559.8	559.2	558.5	559.2	559.8	560.5	561.1	561.1	560.5	559.8
167.5°	565.4	564.6	563.7	562.9	563.7	564.6	565.4	566.3	566.3	565.7	565.0
170°	568.0	567.2	566.4	565.5	566.4	567.2	568.0	568.9	568.9	568.3	567.7
172.5°	570.1	569.2	568.4	567.5	568.4	569.2	570.1	570.8	570.9	570.3	569.7
175°	572.0	571.1	570.2	569.3	570.2	571.1	572.0	573.0	573.1	572.4	571.8
177.5°	572.4	571.6	571.0	570.4	571.0	571.6	572.4	573.0	573.1	572.6	572.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331651-927

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

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°	5.3	5.2	5.3	5.1	5.0	5.3	5.4	5.4	5.7	6.2	7.0
90°	8.7	8.2	7.5	6.8	6.1	5.3	4.4	3.4	2.5	1.4	0.4
92.5°	9.8	9.6	9.2	8.9	8.5	8.2	8.0	8.1	8.2	8.2	8.3
95°	16.6	16.2	15.4	14.8	14.2	13.5	14.7	17.7	20.8	23.8	26.9
97.5°	21.9	21.5	20.1	18.6	17.1	15.6	19.2	27.7	36.3	44.8	53.3
100°	24.3	23.5	22.0	20.4	18.9	17.3	22.8	35.4	48.0	60.6	73.2
102.5°	25.2	24.2	37.3	50.4	63.5	76.4	84.4	87.0	89.7	92.4	95.0
105°	26.2	25.2	50.3	75.4	100.4	125.6	136.7	134.0	131.2	128.4	125.6
107.5°	34.3	35.3	65.4	95.5	125.6	155.6	169.5	167.3	165.1	162.9	160.7
110°	63.1	72.3	98.9	125.5	152.0	178.6	190.8	188.9	187.0	185.1	183.2



TEST NUMBER: P331651-927

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.9	182.5	189.0	195.6	202.2	208.7	211.1	209.5	207.7	206.0	204.3
115°	212.5	255.1	252.8	250.5	248.2	245.9	244.0	242.4	240.8	239.2	237.7
117.5°	272.3	282.5	281.0	279.4	277.8	276.2	274.6	272.8	271.1	269.3	267.6
120°	304.1	303.0	301.3	299.8	298.1	296.4	294.9	293.5	292.2	290.7	289.4
122.5°	323.2	322.6	320.8	318.9	317.1	315.4	313.7	312.3	310.9	309.3	307.9
125°	350.0	349.4	347.6	345.9	344.1	342.4	340.9	339.7	338.5	337.3	336.1
127.5°	374.4	373.5	372.2	370.9	369.6	368.3	366.9	365.6	364.3	363.0	361.6
130°	390.1	389.0	388.0	387.0	386.0	385.0	383.7	382.3	380.8	379.3	377.9
132.5°	405.4	404.6	403.5	402.6	401.6	400.5	399.4	398.2	396.9	395.6	394.4
135°	427.1	426.2	425.4	424.6	423.7	422.9	421.8	420.3	418.8	417.4	415.9
137.5°	447.4	446.5	445.5	444.7	443.7	442.8	441.7	440.7	439.7	438.6	437.7
140°	460.6	459.7	458.7	457.7	456.7	455.7	454.8	454.1	453.4	452.6	451.9
142.5°	472.7	472.0	470.8	469.6	468.5	467.3	466.4	465.7	465.1	464.5	463.7
145°	489.7	489.1	487.5	485.9	484.4	482.8	482.1	482.2	482.3	482.4	482.4
147.5°	504.6	504.1	502.6	501.1	499.5	498.0	497.3	497.7	498.0	498.4	498.8
150°	513.6	513.0	511.6	510.1	508.7	507.2	506.8	507.4	508.0	508.7	509.3
152.5°	521.9	521.3	519.9	518.6	517.1	515.7	515.4	516.1	516.8	517.5	518.2
155°	533.1	532.5	531.4	530.3	529.2	528.1	527.9	528.8	529.6	530.4	531.2
157.5°	542.3	541.8	541.0	540.2	539.4	538.7	538.6	539.3	540.0	540.7	541.4
160°	548.0	547.4	546.8	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4
162.5°	552.9	552.3	551.8	551.4	550.9	550.4	550.5	551.0	551.5	552.1	552.6
165°	559.2	558.5	558.3	557.9	557.7	557.5	557.5	558.1	558.6	559.2	559.8
167.5°	564.4	563.7	563.5	563.2	562.9	562.7	562.8	563.4	564.0	564.5	565.1
170°	567.0	566.4	566.2	566.0	565.9	565.6	565.9	566.4	567.0	567.5	568.0
172.5°	569.0	568.4	568.2	568.0	567.8	567.6	567.8	568.4	568.9	569.5	570.1
175°	571.2	570.5	570.3	570.1	570.0	569.8	570.0	570.7	571.3	572.0	572.6
177.5°	571.6	571.0	570.9	570.8	570.8	570.7	570.9	571.5	572.0	572.5	573.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331651-927

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

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°	5.9	5.0	4.9	4.9	5.3	5.5	5.4	5.5	5.9	5.8	6.1
90°	1.4	2.5	3.4	4.4	5.3	6.1	6.8	7.5	8.2	8.7	9.2
92.5°	8.2	8.2	8.1	8.0	8.2	8.5	8.9	9.2	9.6	9.8	10.1
95°	23.8	20.8	17.7	14.7	13.5	14.2	14.8	15.4	16.2	16.6	17.0
97.5°	44.8	36.3	27.7	19.2	15.6	17.1	18.6	20.1	21.5	21.9	22.3
100°	60.6	48.0	35.4	22.8	17.3	18.9	20.4	22.0	23.5	24.3	25.0
102.5°	92.4	89.7	87.0	84.4	76.4	63.5	50.4	37.3	24.2	25.2	26.1
105°	128.4	131.2	134.0	136.7	125.6	100.4	75.4	50.3	25.2	26.2	27.3
107.5°	162.9	165.1	167.3	169.5	155.6	125.6	95.5	65.4	35.3	34.3	33.3
110°	185.1	187.0	188.9	190.8	178.6	152.0	125.5	98.9	72.3	63.1	53.9



TEST NUMBER: P331651-927

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	206.0	207.7	209.5	211.1	208.7	202.2	195.6	189.0	182.5	148.9	115.4
115°	239.2	240.8	242.4	244.0	245.9	248.2	250.5	252.8	255.1	212.5	170.0
117.5°	269.3	271.1	272.8	274.6	276.2	277.8	279.4	281.0	282.5	272.3	262.0
120°	290.7	292.2	293.5	294.9	296.4	298.1	299.8	301.3	303.0	304.1	305.2
122.5°	309.3	310.9	312.3	313.7	315.4	317.1	318.9	320.8	322.6	323.2	323.8
125°	337.3	338.5	339.7	340.9	342.4	344.1	345.9	347.6	349.4	350.0	350.6
127.5°	363.0	364.3	365.6	366.9	368.3	369.6	370.9	372.2	373.5	374.4	375.3
130°	379.3	380.8	382.3	383.7	385.0	386.0	387.0	388.0	389.0	390.1	391.0
132.5°	395.6	396.9	398.2	399.4	400.5	401.6	402.6	403.5	404.6	405.4	406.3
135°	417.4	418.8	420.3	421.8	422.9	423.7	424.6	425.4	426.2	427.1	428.1
137.5°	438.6	439.7	440.7	441.7	442.8	443.7	444.7	445.5	446.5	447.4	448.3
140°	452.6	453.4	454.1	454.8	455.7	456.7	457.7	458.7	459.7	460.6	461.4
142.5°	464.5	465.1	465.7	466.4	467.3	468.5	469.6	470.8	472.0	472.7	473.5
145°	482.4	482.3	482.2	482.1	482.8	484.4	485.9	487.5	489.1	489.7	490.4
147.5°	498.4	498.0	497.7	497.3	498.0	499.5	501.1	502.6	504.1	504.6	505.1
150°	508.7	508.0	507.4	506.8	507.2	508.7	510.1	511.6	513.0	513.6	514.1
152.5°	517.5	516.8	516.1	515.4	515.7	517.1	518.6	519.9	521.3	521.9	522.4
155°	530.4	529.6	528.8	527.9	528.1	529.2	530.3	531.4	532.5	533.1	533.6
157.5°	540.7	540.0	539.3	538.6	538.7	539.4	540.2	541.0	541.8	542.3	543.0
160°	546.8	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4	548.0	548.4
162.5°	552.1	551.5	551.0	550.5	550.4	550.9	551.4	551.8	552.3	552.9	553.6
165°	559.2	558.6	558.1	557.5	557.5	557.7	557.9	558.3	558.5	559.2	559.8
167.5°	564.5	564.0	563.4	562.8	562.7	562.9	563.2	563.5	563.7	564.4	565.0
170°	567.5	567.0	566.4	565.9	565.6	565.9	566.0	566.2	566.4	567.0	567.7
172.5°	569.5	568.9	568.4	567.8	567.6	567.8	568.0	568.2	568.4	569.0	569.7
175°	572.0	571.3	570.7	570.0	569.8	570.0	570.1	570.3	570.5	571.2	571.8
177.5°	572.5	572.0	571.5	570.9	570.7	570.8	570.8	570.9	571.0	571.6	572.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



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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°	5.9	6.0	6.1	6.2	6.2	6.3	6.0
90°	9.7	10.1	10.5	10.6	10.8	11.0	11.2
92.5°	10.3	10.5	10.7	10.9	10.9	11.1	11.2
95°	17.5	18.0	18.1	18.1	18.0	17.9	17.7
97.5°	22.7	23.1	23.3	23.4	23.5	23.6	23.8
100°	25.7	26.5	26.9	27.2	27.3	27.5	27.7
102.5°	27.1	28.0	28.7	28.9	29.2	29.4	29.7
105°	28.3	29.2	29.9	30.3	30.7	31.1	31.4
107.5°	32.2	31.2	30.9	31.2	31.6	31.9	32.3
110°	44.8	35.6	31.2	31.5	31.9	32.3	32.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	81.9	48.4	31.8	32.1	32.4	32.7	33.0
115°	127.5	84.9	60.4	53.7	47.1	40.5	33.9
117.5°	251.7	241.4	225.4	203.6	181.9	160.2	138.4
120°	306.3	307.4	301.8	289.4	277.0	264.6	252.2
122.5°	324.6	325.2	324.3	321.9	319.5	317.1	314.7
125°	351.3	351.9	352.4	352.7	352.9	353.2	353.5
127.5°	376.3	377.2	377.7	377.8	377.9	377.9	378.0
130°	392.1	393.1	393.6	393.4	393.3	393.2	393.2
132.5°	407.2	408.1	408.4	408.3	408.2	408.1	408.1
135°	429.0	429.9	430.3	430.1	429.9	429.8	429.5
137.5°	449.2	450.1	450.4	450.0	449.7	449.5	449.2
140°	462.2	463.0	463.2	462.7	462.3	461.8	461.4
142.5°	474.2	475.0	475.2	474.7	474.2	473.7	473.2
145°	491.0	491.6	491.7	491.3	490.8	490.4	489.9
147.5°	505.6	506.0	506.0	505.7	505.3	504.9	504.5
150°	514.7	515.2	515.3	514.8	514.4	513.9	513.5
152.5°	523.0	523.6	523.5	522.9	522.3	521.7	521.1
155°	534.2	534.7	534.6	533.9	533.1	532.4	531.6
157.5°	543.6	544.2	544.2	543.4	542.7	542.0	541.3
160°	549.0	549.5	549.5	548.9	548.3	547.6	546.9
162.5°	554.2	554.8	554.8	554.0	553.2	552.4	551.6
165°	560.5	561.1	561.1	560.5	559.8	559.2	558.5
167.5°	565.7	566.3	566.3	565.4	564.6	563.7	562.9
170°	568.3	568.9	568.9	568.0	567.2	566.4	565.5
172.5°	570.3	570.9	570.8	570.1	569.2	568.4	567.5
175°	572.4	573.1	573.0	572.0	571.1	570.2	569.3
177.5°	572.6	573.1	573.0	572.4	571.6	571.0	570.4
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3

(END OF REPORT)