

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: P331653-927

Luminaire Tested: **S122RDIP-S485D530U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331653-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
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-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

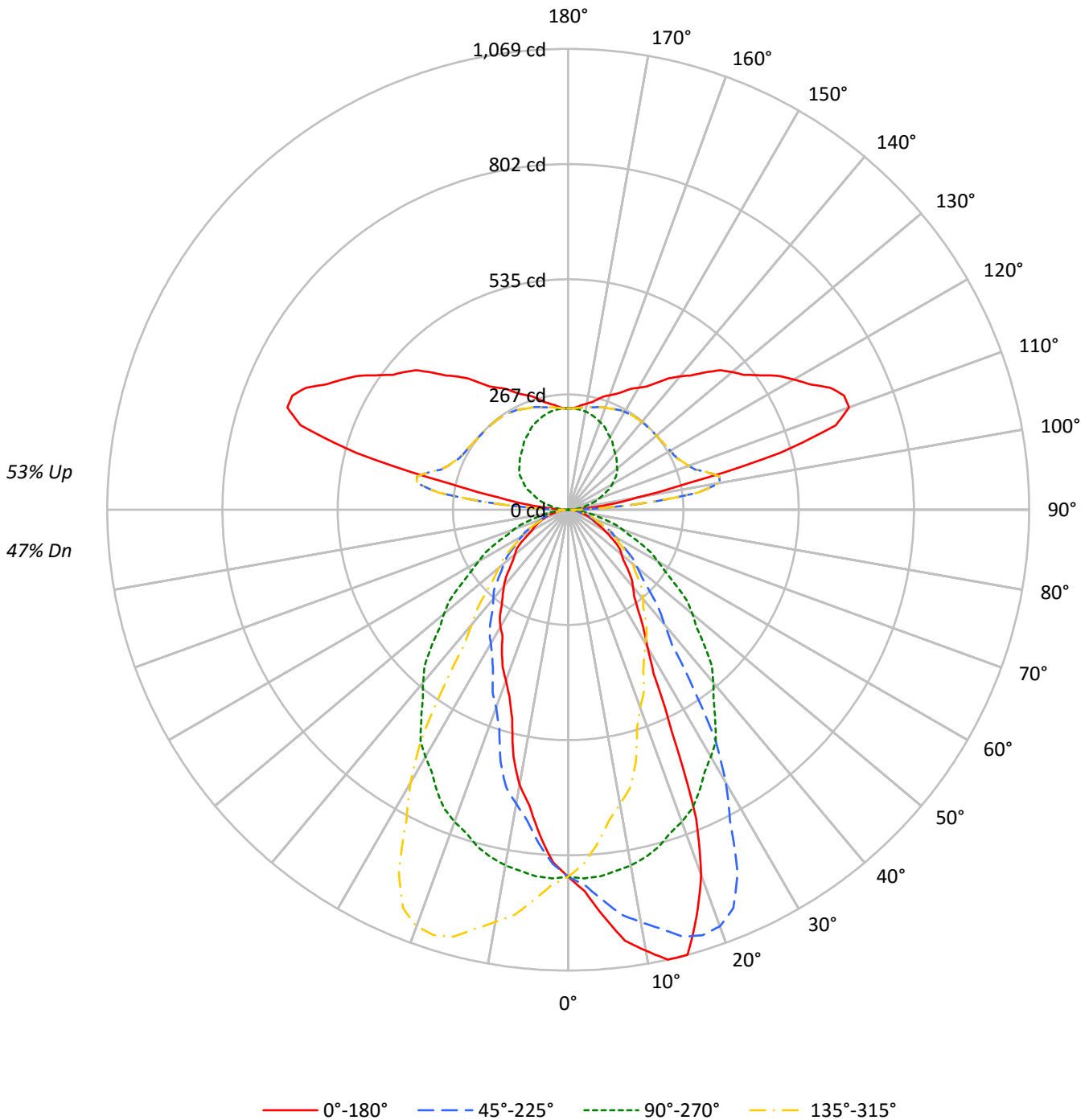
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	77	72	67	65	61	58	54	51	49	44	42	41	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	43	39	37	35	31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25
6	65	53	46	40	60	50	43	38	43	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18
9	52	41	33	29	48	38	32	27	33	28	24	28	24	22	24	21	19	17
10	49	37	30	26	45	35	29	25	31	26	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	7.2
20°-30°	289.8	9.3
30°-40°	275.4	8.9
40°-50°	235.9	7.6
50°-60°	179.7	5.8
60°-70°	113.6	3.7
70°-80°	56.7	1.8
80°-90°	16.9	0.5
90°-100°	93.9	3.0
100°-110°	318.8	10.3
110°-120°	338.6	10.9
120°-130°	278.8	9.0
130°-140°	223.9	7.2
140°-150°	169.2	5.4
150°-160°	118.9	3.8
160°-170°	70.0	2.3
170°-180°	22.8	0.7
0°-30°	595.4	19.2
0°-40°	870.8	28.0
0°-60°	1286.4	41.4
0°-90°	1473.5	47.4
90°-120°	751.3	24.2
90°-150°	1423.1	45.8
90°-180°	1635.0	52.6
0°-180°	3108.3	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	8
95°	52	16	52	16	52	67
105°	509	55	509	55	509	493
115°	670	97	670	97	670	656
125°	544	136	544	136	544	491
135°	450	159	450	159	450	350
145°	360	182	360	182	360	228
155°	302	206	302	206	302	141
165°	265	225	265	225	265	76
175°	239	234	239	234	239	23
180°	235	235	235	235	235	



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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°	6.7	7.0	7.0	7.0	7.0	6.9	6.7	7.1	7.0	7.4	7.0
90°	14.9	14.9	14.9	14.9	14.9	14.4	13.5	14.4	14.9	15.4	14.9
92.5°	25.0	25.7	25.4	26.9	27.2	30.0	33.8	39.4	49.6	58.7	57.9
95°	51.5	51.0	52.4	56.0	61.9	71.9	90.8	118.4	155.0	177.1	156.8
97.5°	101.4	105.2	111.8	122.9	144.5	177.1	226.0	276.2	317.1	302.3	227.7
100°	161.8	169.8	183.0	202.4	239.9	294.5	356.5	412.5	421.9	356.9	245.7
102.5°	284.6	295.6	312.0	345.2	385.9	443.9	489.1	501.8	461.0	358.7	238.9
105°	509.1	515.5	534.9	562.9	590.9	605.9	599.9	548.9	455.0	334.8	225.5
107.5°	650.4	658.8	662.7	664.2	660.7	638.8	591.8	514.9	415.3	309.1	218.7
110°	693.0	693.5	689.4	680.8	661.4	624.3	566.5	485.7	390.3	296.8	217.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	692.3	689.8	682.1	667.8	640.8	598.3	536.5	458.9	373.0	288.8	217.7
115°	669.9	665.9	654.2	633.3	601.3	554.8	495.6	426.0	351.5	280.1	219.6
117.5°	630.1	626.7	614.3	592.4	559.7	516.0	462.3	401.2	337.9	275.8	222.8
120°	604.4	599.9	586.8	565.6	534.0	492.9	445.0	389.0	330.7	273.3	225.0
122.5°	577.7	573.9	562.3	541.4	513.0	475.9	430.6	379.2	324.6	271.9	227.5
125°	543.5	539.9	528.5	511.4	485.2	451.3	411.5	365.0	315.8	269.3	231.3
127.5°	513.5	510.6	500.8	484.7	461.9	430.6	393.2	351.0	307.7	267.8	235.2
130°	496.5	492.9	483.9	468.5	446.3	416.5	380.9	342.0	302.2	267.0	238.1
132.5°	478.8	475.5	467.2	451.9	430.1	402.1	369.3	333.4	297.9	266.6	241.0
135°	450.4	448.6	440.5	425.6	406.2	380.9	351.0	321.2	291.8	266.1	244.4
137.5°	422.6	419.9	412.7	399.9	382.2	360.1	336.5	311.6	287.6	266.0	247.5
140°	403.5	400.7	394.0	382.2	367.7	347.8	327.1	305.4	285.1	265.6	248.9
142.5°	384.3	383.7	377.7	367.0	353.3	336.7	318.8	300.3	282.6	265.6	250.0
145°	359.6	358.2	353.7	346.0	335.3	322.1	308.1	293.2	279.2	264.7	251.2
147.5°	338.9	338.1	335.0	328.9	320.0	310.4	299.4	287.7	275.8	263.1	251.5
150°	326.6	326.1	323.4	318.1	311.2	303.2	293.7	283.7	272.9	262.1	251.2
152.5°	316.2	316.1	314.1	309.3	304.0	297.0	289.0	279.7	270.4	260.2	250.5
155°	302.2	303.2	301.3	298.2	293.2	288.2	281.5	274.3	265.6	257.1	249.4
157.5°	290.4	290.4	289.6	286.9	283.4	279.6	273.9	267.8	261.2	253.8	247.3
160°	282.8	282.8	282.3	280.1	276.9	273.8	268.8	263.8	257.9	251.7	246.2
162.5°	275.6	275.9	275.5	273.9	270.8	268.4	264.1	259.8	255.1	249.9	245.1
165°	265.2	265.6	265.6	263.8	262.1	260.2	257.1	253.9	250.3	246.2	243.0
167.5°	255.6	256.2	256.3	255.2	254.4	252.8	250.6	248.2	245.6	243.0	241.0
170°	249.9	250.7	251.2	249.9	249.4	248.5	246.7	245.3	243.0	241.2	239.9
172.5°	245.1	245.7	246.1	245.5	245.0	244.5	243.0	242.1	240.5	239.1	238.4
175°	239.0	239.9	240.3	239.9	239.9	239.5	239.0	238.5	237.2	236.7	236.3
177.5°	235.3	236.0	236.4	236.4	236.4	236.4	236.0	236.0	235.3	234.9	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



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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°	6.5	6.1	5.6	5.1	5.1	5.2	6.0	7.0	6.3	5.9	5.6
90°	12.2	9.0	6.8	5.4	4.5	3.6	1.8	0.5	1.8	3.6	4.5
92.5°	45.1	30.7	20.5	16.2	13.2	11.2	7.9	5.5	7.9	11.2	13.2
95°	104.3	65.0	44.3	33.4	26.2	22.1	17.6	15.8	17.6	22.1	26.2
97.5°	140.6	85.9	59.7	47.5	39.1	33.0	28.2	25.7	28.2	33.0	39.1
100°	148.2	93.1	69.2	56.5	47.5	40.2	36.1	34.8	36.1	40.2	47.5
102.5°	148.5	99.6	77.4	64.8	55.4	48.2	44.1	43.1	44.1	48.2	55.4
105°	150.9	110.7	89.4	76.8	66.9	60.0	57.0	55.1	57.0	60.0	66.9
107.5°	157.1	122.1	101.5	88.7	78.9	72.6	69.6	68.1	69.6	72.6	78.9
110°	162.2	129.7	109.8	96.6	87.2	81.4	78.6	76.8	78.6	81.4	87.2



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	167.6	136.9	117.7	104.3	95.1	89.6	86.6	84.8	86.6	89.6	95.1
115°	175.7	148.2	128.7	116.5	107.5	102.1	99.4	97.1	99.4	102.1	107.5
117.5°	184.4	158.6	140.6	127.9	119.3	114.5	111.8	110.0	111.8	114.5	119.3
120°	190.2	165.8	148.2	135.5	126.5	122.4	119.7	117.9	119.7	122.4	126.5
122.5°	195.3	172.7	156.1	143.1	134.1	129.7	127.0	125.5	127.0	129.7	134.1
125°	203.3	183.0	166.7	154.1	145.0	139.6	136.9	135.5	136.9	139.6	145.0
127.5°	210.8	192.6	176.7	163.7	155.0	149.1	145.3	143.5	145.3	149.1	155.0
130°	215.5	198.4	182.5	169.8	160.8	154.5	150.0	148.2	150.0	154.5	160.8
132.5°	220.2	203.4	188.3	175.6	166.3	159.5	154.7	152.5	154.7	159.5	166.3
135°	226.3	210.6	196.1	183.4	173.0	166.3	160.8	159.0	160.8	166.3	173.0
137.5°	231.0	216.3	202.0	190.3	180.0	172.8	167.3	165.2	167.3	172.8	180.0
140°	233.5	219.6	206.0	194.2	184.3	177.1	171.7	169.8	171.7	177.1	184.3
142.5°	235.8	222.1	208.9	197.9	188.3	181.1	176.0	174.6	176.0	181.1	188.3
145°	238.5	225.9	213.7	203.7	194.7	187.9	183.4	181.6	183.4	187.9	194.7
147.5°	240.1	228.9	217.5	208.7	201.1	194.9	190.5	189.2	190.5	194.9	201.1
150°	240.8	230.4	220.0	211.9	205.1	199.2	195.6	194.2	195.6	199.2	205.1
152.5°	241.1	231.9	222.5	215.2	208.7	203.6	199.9	199.3	199.9	203.6	208.7
155°	241.7	234.0	226.3	219.6	214.6	209.6	206.9	206.4	206.9	209.6	214.6
157.5°	241.7	235.5	229.0	223.4	219.4	215.1	212.9	212.4	212.9	215.1	219.4
160°	241.7	236.3	230.8	225.9	222.3	218.6	216.8	216.4	216.8	218.6	222.3
162.5°	241.3	236.6	232.0	228.1	224.8	221.9	220.1	220.4	220.1	221.9	224.8
165°	240.3	237.2	233.1	230.4	228.1	225.5	224.5	225.0	224.5	225.5	228.1
167.5°	239.7	237.1	234.1	232.4	230.8	229.0	228.2	228.8	228.2	229.0	230.8
170°	239.0	236.7	234.5	233.1	232.2	230.8	230.4	231.3	230.4	230.8	232.2
172.5°	237.9	236.4	234.8	233.9	233.3	232.0	232.2	232.7	232.2	232.0	233.3
175°	236.7	235.8	234.9	234.5	234.5	233.5	234.0	234.5	234.0	233.5	234.5
177.5°	236.0	235.3	234.9	234.9	234.9	234.2	234.6	235.3	234.6	234.2	234.9
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-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°	5.5	5.6	5.6	6.3	6.7	6.7	6.5	6.2	6.0	6.2	6.0
90°	5.4	6.8	9.0	12.2	14.9	15.4	14.9	14.4	13.5	14.4	14.9
92.5°	16.2	20.5	30.7	45.1	57.9	58.7	49.6	39.4	33.8	30.0	27.2
95°	33.4	44.3	65.0	104.3	156.8	177.1	155.0	118.4	90.8	71.9	61.9
97.5°	47.5	59.7	85.9	140.6	227.7	302.3	317.1	276.2	226.0	177.1	144.5
100°	56.5	69.2	93.1	148.2	245.7	356.9	421.9	412.5	356.5	294.5	239.9
102.5°	64.8	77.4	99.6	148.5	238.9	358.7	461.0	501.8	489.1	443.9	385.9
105°	76.8	89.4	110.7	150.9	225.5	334.8	455.0	548.9	599.9	605.9	590.9
107.5°	88.7	101.5	122.1	157.1	218.7	309.1	415.3	514.9	591.8	638.8	660.7
110°	96.6	109.8	129.7	162.2	217.3	296.8	390.3	485.7	566.5	624.3	661.4



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	104.3	117.7	136.9	167.6	217.7	288.8	373.0	458.9	536.5	598.3	640.8
115°	116.5	128.7	148.2	175.7	219.6	280.1	351.5	426.0	495.6	554.8	601.3
117.5°	127.9	140.6	158.6	184.4	222.8	275.8	337.9	401.2	462.3	516.0	559.7
120°	135.5	148.2	165.8	190.2	225.0	273.3	330.7	389.0	445.0	492.9	534.0
122.5°	143.1	156.1	172.7	195.3	227.5	271.9	324.6	379.2	430.6	475.9	513.0
125°	154.1	166.7	183.0	203.3	231.3	269.3	315.8	365.0	411.5	451.3	485.2
127.5°	163.7	176.7	192.6	210.8	235.2	267.8	307.7	351.0	393.2	430.6	461.9
130°	169.8	182.5	198.4	215.5	238.1	267.0	302.2	342.0	380.9	416.5	446.3
132.5°	175.6	188.3	203.4	220.2	241.0	266.6	297.9	333.4	369.3	402.1	430.1
135°	183.4	196.1	210.6	226.3	244.4	266.1	291.8	321.2	351.0	380.9	406.2
137.5°	190.3	202.0	216.3	231.0	247.5	266.0	287.6	311.6	336.5	360.1	382.2
140°	194.2	206.0	219.6	233.5	248.9	265.6	285.1	305.4	327.1	347.8	367.7
142.5°	197.9	208.9	222.1	235.8	250.0	265.6	282.6	300.3	318.8	336.7	353.3
145°	203.7	213.7	225.9	238.5	251.2	264.7	279.2	293.2	308.1	322.1	335.3
147.5°	208.7	217.5	228.9	240.1	251.5	263.1	275.8	287.7	299.4	310.4	320.0
150°	211.9	220.0	230.4	240.8	251.2	262.1	272.9	283.7	293.7	303.2	311.2
152.5°	215.2	222.5	231.9	241.1	250.5	260.2	270.4	279.7	289.0	297.0	304.0
155°	219.6	226.3	234.0	241.7	249.4	257.1	265.6	274.3	281.5	288.2	293.2
157.5°	223.4	229.0	235.5	241.7	247.3	253.8	261.2	267.8	273.9	279.6	283.4
160°	225.9	230.8	236.3	241.7	246.2	251.7	257.9	263.8	268.8	273.8	276.9
162.5°	228.1	232.0	236.6	241.3	245.1	249.9	255.1	259.8	264.1	268.4	270.8
165°	230.4	233.1	237.2	240.3	243.0	246.2	250.3	253.9	257.1	260.2	262.1
167.5°	232.4	234.1	237.1	239.7	241.0	243.0	245.6	248.2	250.6	252.8	254.4
170°	233.1	234.5	236.7	239.0	239.9	241.2	243.0	245.3	246.7	248.5	249.4
172.5°	233.9	234.8	236.4	237.9	238.4	239.1	240.5	242.1	243.0	244.5	245.0
175°	234.5	234.9	235.8	236.7	236.3	236.7	237.2	238.5	239.0	239.5	239.9
177.5°	234.9	234.9	235.3	236.0	235.3	234.9	235.3	236.0	236.0	236.4	236.4
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-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°	6.0	5.8	6.0	5.8	6.0	5.8	6.0	6.0	6.2	6.0	6.2
90°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.4	13.5	14.4
92.5°	26.9	25.4	25.7	25.0	25.7	25.4	26.9	27.2	30.0	33.8	39.4
95°	56.0	52.4	51.0	51.5	51.0	52.4	56.0	61.9	71.9	90.8	118.4
97.5°	122.9	111.8	105.2	101.4	105.2	111.8	122.9	144.5	177.1	226.0	276.2
100°	202.4	183.0	169.8	161.8	169.8	183.0	202.4	239.9	294.5	356.5	412.5
102.5°	345.2	312.0	295.6	284.6	295.6	312.0	345.2	385.9	443.9	489.1	501.8
105°	562.9	534.9	515.5	509.1	515.5	534.9	562.9	590.9	605.9	599.9	548.9
107.5°	664.2	662.7	658.8	650.4	658.8	662.7	664.2	660.7	638.8	591.8	514.9
110°	680.8	689.4	693.5	693.0	693.5	689.4	680.8	661.4	624.3	566.5	485.7



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	667.8	682.1	689.8	692.3	689.8	682.1	667.8	640.8	598.3	536.5	458.9
115°	633.3	654.2	665.9	669.9	665.9	654.2	633.3	601.3	554.8	495.6	426.0
117.5°	592.4	614.3	626.7	630.1	626.7	614.3	592.4	559.7	516.0	462.3	401.2
120°	565.6	586.8	599.9	604.4	599.9	586.8	565.6	534.0	492.9	445.0	389.0
122.5°	541.4	562.3	573.9	577.7	573.9	562.3	541.4	513.0	475.9	430.6	379.2
125°	511.4	528.5	539.9	543.5	539.9	528.5	511.4	485.2	451.3	411.5	365.0
127.5°	484.7	500.8	510.6	513.5	510.6	500.8	484.7	461.9	430.6	393.2	351.0
130°	468.5	483.9	492.9	496.5	492.9	483.9	468.5	446.3	416.5	380.9	342.0
132.5°	451.9	467.2	475.5	478.8	475.5	467.2	451.9	430.1	402.1	369.3	333.4
135°	425.6	440.5	448.6	450.4	448.6	440.5	425.6	406.2	380.9	351.0	321.2
137.5°	399.9	412.7	419.9	422.6	419.9	412.7	399.9	382.2	360.1	336.5	311.6
140°	382.2	394.0	400.7	403.5	400.7	394.0	382.2	367.7	347.8	327.1	305.4
142.5°	367.0	377.7	383.7	384.3	383.7	377.7	367.0	353.3	336.7	318.8	300.3
145°	346.0	353.7	358.2	359.6	358.2	353.7	346.0	335.3	322.1	308.1	293.2
147.5°	328.9	335.0	338.1	338.9	338.1	335.0	328.9	320.0	310.4	299.4	287.7
150°	318.1	323.4	326.1	326.6	326.1	323.4	318.1	311.2	303.2	293.7	283.7
152.5°	309.3	314.1	316.1	316.2	316.1	314.1	309.3	304.0	297.0	289.0	279.7
155°	298.2	301.3	303.2	302.2	303.2	301.3	298.2	293.2	288.2	281.5	274.3
157.5°	286.9	289.6	290.4	290.4	290.4	289.6	286.9	283.4	279.6	273.9	267.8
160°	280.1	282.3	282.8	282.8	282.8	282.3	280.1	276.9	273.8	268.8	263.8
162.5°	273.9	275.5	275.9	275.6	275.9	275.5	273.9	270.8	268.4	264.1	259.8
165°	263.8	265.6	265.6	265.2	265.6	265.6	263.8	262.1	260.2	257.1	253.9
167.5°	255.2	256.3	256.2	255.6	256.2	256.3	255.2	254.4	252.8	250.6	248.2
170°	249.9	251.2	250.7	249.9	250.7	251.2	249.9	249.4	248.5	246.7	245.3
172.5°	245.5	246.1	245.7	245.1	245.7	246.1	245.5	245.0	244.5	243.0	242.1
175°	239.9	240.3	239.9	239.0	239.9	240.3	239.9	239.9	239.5	239.0	238.5
177.5°	236.4	236.4	236.0	235.3	236.0	236.4	236.4	236.4	236.4	236.0	236.0
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-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°	6.5	6.7	6.7	6.3	5.6	5.6	5.5	5.6	5.9	6.3	7.0
90°	14.9	15.4	14.9	12.2	9.0	6.8	5.4	4.5	3.6	1.8	0.5
92.5°	49.6	58.7	57.9	45.1	30.7	20.5	16.2	13.2	11.2	7.9	5.5
95°	155.0	177.1	156.8	104.3	65.0	44.3	33.4	26.2	22.1	17.6	15.8
97.5°	317.1	302.3	227.7	140.6	85.9	59.7	47.5	39.1	33.0	28.2	25.7
100°	421.9	356.9	245.7	148.2	93.1	69.2	56.5	47.5	40.2	36.1	34.8
102.5°	461.0	358.7	238.9	148.5	99.6	77.4	64.8	55.4	48.2	44.1	43.1
105°	455.0	334.8	225.5	150.9	110.7	89.4	76.8	66.9	60.0	57.0	55.1
107.5°	415.3	309.1	218.7	157.1	122.1	101.5	88.7	78.9	72.6	69.6	68.1
110°	390.3	296.8	217.3	162.2	129.7	109.8	96.6	87.2	81.4	78.6	76.8



TEST NUMBER: P331653-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	373.0	288.8	217.7	167.6	136.9	117.7	104.3	95.1	89.6	86.6	84.8
115°	351.5	280.1	219.6	175.7	148.2	128.7	116.5	107.5	102.1	99.4	97.1
117.5°	337.9	275.8	222.8	184.4	158.6	140.6	127.9	119.3	114.5	111.8	110.0
120°	330.7	273.3	225.0	190.2	165.8	148.2	135.5	126.5	122.4	119.7	117.9
122.5°	324.6	271.9	227.5	195.3	172.7	156.1	143.1	134.1	129.7	127.0	125.5
125°	315.8	269.3	231.3	203.3	183.0	166.7	154.1	145.0	139.6	136.9	135.5
127.5°	307.7	267.8	235.2	210.8	192.6	176.7	163.7	155.0	149.1	145.3	143.5
130°	302.2	267.0	238.1	215.5	198.4	182.5	169.8	160.8	154.5	150.0	148.2
132.5°	297.9	266.6	241.0	220.2	203.4	188.3	175.6	166.3	159.5	154.7	152.5
135°	291.8	266.1	244.4	226.3	210.6	196.1	183.4	173.0	166.3	160.8	159.0
137.5°	287.6	266.0	247.5	231.0	216.3	202.0	190.3	180.0	172.8	167.3	165.2
140°	285.1	265.6	248.9	233.5	219.6	206.0	194.2	184.3	177.1	171.7	169.8
142.5°	282.6	265.6	250.0	235.8	222.1	208.9	197.9	188.3	181.1	176.0	174.6
145°	279.2	264.7	251.2	238.5	225.9	213.7	203.7	194.7	187.9	183.4	181.6
147.5°	275.8	263.1	251.5	240.1	228.9	217.5	208.7	201.1	194.9	190.5	189.2
150°	272.9	262.1	251.2	240.8	230.4	220.0	211.9	205.1	199.2	195.6	194.2
152.5°	270.4	260.2	250.5	241.1	231.9	222.5	215.2	208.7	203.6	199.9	199.3
155°	265.6	257.1	249.4	241.7	234.0	226.3	219.6	214.6	209.6	206.9	206.4
157.5°	261.2	253.8	247.3	241.7	235.5	229.0	223.4	219.4	215.1	212.9	212.4
160°	257.9	251.7	246.2	241.7	236.3	230.8	225.9	222.3	218.6	216.8	216.4
162.5°	255.1	249.9	245.1	241.3	236.6	232.0	228.1	224.8	221.9	220.1	220.4
165°	250.3	246.2	243.0	240.3	237.2	233.1	230.4	228.1	225.5	224.5	225.0
167.5°	245.6	243.0	241.0	239.7	237.1	234.1	232.4	230.8	229.0	228.2	228.8
170°	243.0	241.2	239.9	239.0	236.7	234.5	233.1	232.2	230.8	230.4	231.3
172.5°	240.5	239.1	238.4	237.9	236.4	234.8	233.9	233.3	232.0	232.2	232.7
175°	237.2	236.7	236.3	236.7	235.8	234.9	234.5	234.5	233.5	234.0	234.5
177.5°	235.3	234.9	235.3	236.0	235.3	234.9	234.9	234.9	234.2	234.6	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-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°	6.0	5.2	5.1	5.1	5.6	6.1	6.5	7.0	7.4	7.0	7.1
90°	1.8	3.6	4.5	5.4	6.8	9.0	12.2	14.9	15.4	14.9	14.4
92.5°	7.9	11.2	13.2	16.2	20.5	30.7	45.1	57.9	58.7	49.6	39.4
95°	17.6	22.1	26.2	33.4	44.3	65.0	104.3	156.8	177.1	155.0	118.4
97.5°	28.2	33.0	39.1	47.5	59.7	85.9	140.6	227.7	302.3	317.1	276.2
100°	36.1	40.2	47.5	56.5	69.2	93.1	148.2	245.7	356.9	421.9	412.5
102.5°	44.1	48.2	55.4	64.8	77.4	99.6	148.5	238.9	358.7	461.0	501.8
105°	57.0	60.0	66.9	76.8	89.4	110.7	150.9	225.5	334.8	455.0	548.9
107.5°	69.6	72.6	78.9	88.7	101.5	122.1	157.1	218.7	309.1	415.3	514.9
110°	78.6	81.4	87.2	96.6	109.8	129.7	162.2	217.3	296.8	390.3	485.7



TEST NUMBER: P331653-927

CATALOG NUMBER: S122RDIP-S485D530U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	86.6	89.6	95.1	104.3	117.7	136.9	167.6	217.7	288.8	373.0	458.9
115°	99.4	102.1	107.5	116.5	128.7	148.2	175.7	219.6	280.1	351.5	426.0
117.5°	111.8	114.5	119.3	127.9	140.6	158.6	184.4	222.8	275.8	337.9	401.2
120°	119.7	122.4	126.5	135.5	148.2	165.8	190.2	225.0	273.3	330.7	389.0
122.5°	127.0	129.7	134.1	143.1	156.1	172.7	195.3	227.5	271.9	324.6	379.2
125°	136.9	139.6	145.0	154.1	166.7	183.0	203.3	231.3	269.3	315.8	365.0
127.5°	145.3	149.1	155.0	163.7	176.7	192.6	210.8	235.2	267.8	307.7	351.0
130°	150.0	154.5	160.8	169.8	182.5	198.4	215.5	238.1	267.0	302.2	342.0
132.5°	154.7	159.5	166.3	175.6	188.3	203.4	220.2	241.0	266.6	297.9	333.4
135°	160.8	166.3	173.0	183.4	196.1	210.6	226.3	244.4	266.1	291.8	321.2
137.5°	167.3	172.8	180.0	190.3	202.0	216.3	231.0	247.5	266.0	287.6	311.6
140°	171.7	177.1	184.3	194.2	206.0	219.6	233.5	248.9	265.6	285.1	305.4
142.5°	176.0	181.1	188.3	197.9	208.9	222.1	235.8	250.0	265.6	282.6	300.3
145°	183.4	187.9	194.7	203.7	213.7	225.9	238.5	251.2	264.7	279.2	293.2
147.5°	190.5	194.9	201.1	208.7	217.5	228.9	240.1	251.5	263.1	275.8	287.7
150°	195.6	199.2	205.1	211.9	220.0	230.4	240.8	251.2	262.1	272.9	283.7
152.5°	199.9	203.6	208.7	215.2	222.5	231.9	241.1	250.5	260.2	270.4	279.7
155°	206.9	209.6	214.6	219.6	226.3	234.0	241.7	249.4	257.1	265.6	274.3
157.5°	212.9	215.1	219.4	223.4	229.0	235.5	241.7	247.3	253.8	261.2	267.8
160°	216.8	218.6	222.3	225.9	230.8	236.3	241.7	246.2	251.7	257.9	263.8
162.5°	220.1	221.9	224.8	228.1	232.0	236.6	241.3	245.1	249.9	255.1	259.8
165°	224.5	225.5	228.1	230.4	233.1	237.2	240.3	243.0	246.2	250.3	253.9
167.5°	228.2	229.0	230.8	232.4	234.1	237.1	239.7	241.0	243.0	245.6	248.2
170°	230.4	230.8	232.2	233.1	234.5	236.7	239.0	239.9	241.2	243.0	245.3
172.5°	232.2	232.0	233.3	233.9	234.8	236.4	237.9	238.4	239.1	240.5	242.1
175°	234.0	233.5	234.5	234.5	234.9	235.8	236.7	236.3	236.7	237.2	238.5
177.5°	234.6	234.2	234.9	234.9	234.9	235.3	236.0	235.3	234.9	235.3	236.0
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9



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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°	6.7	6.9	7.0	7.0	7.0	7.0	6.7
90°	13.5	14.4	14.9	14.9	14.9	14.9	14.9
92.5°	33.8	30.0	27.2	26.9	25.4	25.7	25.0
95°	90.8	71.9	61.9	56.0	52.4	51.0	51.5
97.5°	226.0	177.1	144.5	122.9	111.8	105.2	101.4
100°	356.5	294.5	239.9	202.4	183.0	169.8	161.8
102.5°	489.1	443.9	385.9	345.2	312.0	295.6	284.6
105°	599.9	605.9	590.9	562.9	534.9	515.5	509.1
107.5°	591.8	638.8	660.7	664.2	662.7	658.8	650.4
110°	566.5	624.3	661.4	680.8	689.4	693.5	693.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	536.5	598.3	640.8	667.8	682.1	689.8	692.3
115°	495.6	554.8	601.3	633.3	654.2	665.9	669.9
117.5°	462.3	516.0	559.7	592.4	614.3	626.7	630.1
120°	445.0	492.9	534.0	565.6	586.8	599.9	604.4
122.5°	430.6	475.9	513.0	541.4	562.3	573.9	577.7
125°	411.5	451.3	485.2	511.4	528.5	539.9	543.5
127.5°	393.2	430.6	461.9	484.7	500.8	510.6	513.5
130°	380.9	416.5	446.3	468.5	483.9	492.9	496.5
132.5°	369.3	402.1	430.1	451.9	467.2	475.5	478.8
135°	351.0	380.9	406.2	425.6	440.5	448.6	450.4
137.5°	336.5	360.1	382.2	399.9	412.7	419.9	422.6
140°	327.1	347.8	367.7	382.2	394.0	400.7	403.5
142.5°	318.8	336.7	353.3	367.0	377.7	383.7	384.3
145°	308.1	322.1	335.3	346.0	353.7	358.2	359.6
147.5°	299.4	310.4	320.0	328.9	335.0	338.1	338.9
150°	293.7	303.2	311.2	318.1	323.4	326.1	326.6
152.5°	289.0	297.0	304.0	309.3	314.1	316.1	316.2
155°	281.5	288.2	293.2	298.2	301.3	303.2	302.2
157.5°	273.9	279.6	283.4	286.9	289.6	290.4	290.4
160°	268.8	273.8	276.9	280.1	282.3	282.8	282.8
162.5°	264.1	268.4	270.8	273.9	275.5	275.9	275.6
165°	257.1	260.2	262.1	263.8	265.6	265.6	265.2
167.5°	250.6	252.8	254.4	255.2	256.3	256.2	255.6
170°	246.7	248.5	249.4	249.9	251.2	250.7	249.9
172.5°	243.0	244.5	245.0	245.5	246.1	245.7	245.1
175°	239.0	239.5	239.9	239.9	240.3	239.9	239.0
177.5°	236.0	236.4	236.4	236.4	236.4	236.0	235.3
180°	234.9	234.9	234.9	234.9	234.9	234.9	234.9

(END OF REPORT)