

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: P331786-940

Luminaire Tested: **S122RDIW-S485D435U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331786-940
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: S122RDIW-S485D435U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.8 lumens
Efficiency: N/A
Efficacy: 99.2 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

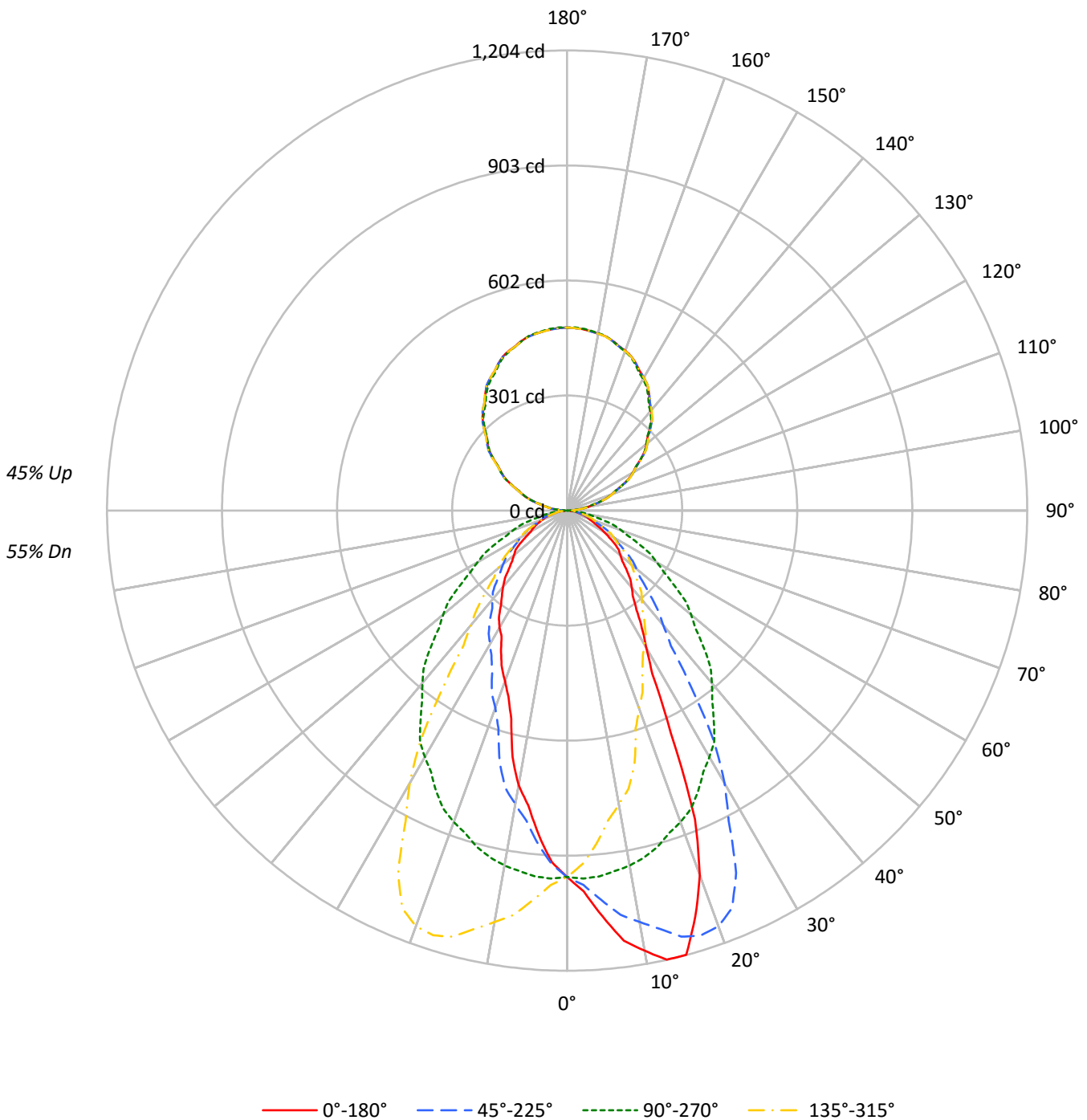
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	55	54	53	48
2	92	85	79	74	85	79	74	70	68	65	62	59	56	54	50	48	46	42
3	84	75	68	63	78	70	64	60	61	57	53	53	49	47	45	42	40	37
4	78	67	60	54	72	63	57	51	55	50	46	48	44	41	41	38	36	32
5	72	61	53	47	67	57	50	45	50	45	40	43	39	36	37	34	32	29
6	66	55	47	42	62	52	45	40	45	40	36	40	35	32	34	31	29	26
7	62	50	42	37	57	47	40	35	42	36	32	36	32	29	32	28	26	23
8	57	46	38	33	54	43	36	32	38	33	29	34	29	26	29	26	24	21
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	27	24	22	19
10	50	39	32	27	47	37	30	26	33	28	24	29	25	22	26	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15474	15474	15474	15474
5°	17280	15571	13807	15571
10°	19174	15462	11968	15462
15°	20117	15234	9429	15234
20°	17438	14899	8158	14899
25°	11437	14439	7285	14439
30°	7700	13882	6594	13882
35°	6236	13180	5947	13180
40°	5545	12416	5503	12416
45°	5019	11520	4912	11520
50°	4567	10630	4549	10630
55°	4293	9647	4236	9647
60°	3591	8741	3549	8741
65°	3030	7939	3435	7939
70°	2799	7091	3238	7091
75°	2620	6170	2994	6170
80°	2408	5077	2659	5077
85°	2205	4020	2353	4020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.0
10°-20°	253.1	8.4
20°-30°	326.2	10.9
30°-40°	310.0	10.3
40°-50°	265.6	8.9
50°-60°	202.2	6.7
60°-70°	127.8	4.3
70°-80°	63.8	2.1
80°-90°	18.5	0.6
90°-100°	30.3	1.0
100°-110°	94.2	3.1
110°-120°	161.0	5.4
120°-130°	211.8	7.1
130°-140°	237.7	7.9
140°-150°	233.1	7.8
150°-160°	195.5	6.5
160°-170°	129.7	4.3
170°-180°	45.3	1.5
0°-30°	670.2	22.4
0°-40°	980.2	32.7
0°-60°	1448.0	48.3
0°-90°	1658.2	55.3
90°-120°	285.6	9.5
90°-150°	968.1	32.3
90°-180°	1339.0	44.7
0°-180°	2996.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	958	958	958	958	958	
5°	1066	961	852	961	1066	105
15°	1204	911	564	911	1204	325
25°	642	810	409	810	642	305
35°	316	669	302	669	316	202
45°	220	504	215	504	220	170
55°	152	343	150	343	152	134
65°	79	208	90	208	79	81
75°	42	99	48	99	42	45
85°	12	22	13	22	12	13
90°	14	0	14	0	14	7
95°	25	21	25	21	25	28
105°	90	87	90	87	90	94
115°	162	162	162	162	162	160
125°	236	235	236	235	236	210
135°	308	304	308	304	308	237
145°	373	369	373	369	373	233
155°	425	422	425	422	425	196
165°	460	459	460	459	460	130
175°	476	478	476	478	476	45
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	997.3	998.1	998.9	997.0	997.0	995.4	991.9	989.3	981.8	980.7	980.7
5°	1066.2	1065.6	1066.9	1062.6	1056.6	1055.3	1048.9	1040.6	1032.0	1022.3	1020.3
7.5°	1134.9	1133.9	1131.2	1130.4	1125.9	1115.8	1105.6	1094.8	1080.4	1066.3	1059.3
10°	1169.5	1180.4	1173.8	1162.2	1164.5	1148.9	1140.5	1126.2	1114.2	1093.2	1088.6
12.5°	1203.5	1207.9	1205.8	1199.2	1196.2	1185.4	1174.1	1161.6	1139.5	1120.7	1104.3
15°	1203.5	1209.8	1211.5	1209.4	1211.1	1210.4	1204.4	1194.1	1174.8	1154.1	1136.2
17.5°	1114.6	1119.0	1129.9	1137.3	1146.7	1166.4	1176.1	1179.9	1177.0	1165.2	1152.5
20°	1014.9	1007.6	1038.3	1053.9	1067.3	1100.5	1129.2	1140.1	1157.8	1157.5	1154.1
22.5°	873.8	875.5	904.6	923.1	962.1	995.3	1028.0	1069.3	1103.5	1126.1	1139.2
25°	642.0	654.7	683.7	708.9	752.2	814.2	870.5	935.8	997.3	1046.0	1092.3
27.5°	482.1	483.1	506.0	529.5	555.2	605.9	676.8	754.7	842.6	915.0	998.4
30°	413.0	410.9	420.6	434.9	456.9	496.1	549.5	626.1	713.6	822.9	920.1
32.5°	363.9	364.0	371.3	381.9	400.1	426.6	463.2	525.3	608.1	715.5	829.5
35°	316.4	316.0	321.4	329.0	336.6	353.7	378.6	411.3	468.2	568.5	685.0
37.5°	282.2	283.7	286.3	291.1	299.5	309.0	324.0	345.9	386.5	445.8	543.7
40°	263.1	263.8	267.4	271.4	276.4	283.7	296.0	313.7	343.3	390.6	462.2
42.5°	245.5	246.1	248.8	252.4	256.4	263.8	273.9	289.2	313.3	350.1	409.2
45°	219.8	219.8	222.1	223.7	228.1	234.8	243.1	255.7	272.4	299.7	339.0
47.5°	195.6	195.7	197.2	200.1	202.9	208.0	216.2	226.6	238.7	259.8	293.4
50°	181.8	182.2	183.2	185.5	187.2	191.8	198.1	207.1	219.8	236.1	264.0
52.5°	170.6	170.4	171.7	172.7	173.8	177.2	181.9	189.8	201.2	215.3	238.5
55°	152.5	151.1	153.2	154.8	155.9	157.2	159.8	164.9	174.5	186.5	203.8
57.5°	129.8	129.3	130.7	132.2	135.4	139.0	141.2	144.5	149.5	158.0	175.2
60°	111.2	111.2	114.2	115.2	118.9	123.5	128.2	130.9	135.9	141.5	154.2
62.5°	94.7	95.0	96.4	97.4	99.4	105.1	111.7	117.5	122.3	127.7	136.1
65°	79.3	79.9	79.9	80.6	81.9	83.3	85.9	90.6	98.9	106.6	112.9
67.5°	67.2	67.5	67.7	68.3	68.7	70.1	71.2	73.3	75.2	82.5	90.3
70°	59.3	60.3	59.9	60.6	60.9	61.6	63.0	63.9	67.0	68.6	73.3
72.5°	51.8	52.5	52.5	52.9	53.8	53.9	54.9	55.9	57.9	59.3	61.8
75°	42.0	41.6	42.0	42.6	43.0	43.2	43.2	44.6	45.7	47.0	48.6
77.5°	32.4	32.7	32.6	32.7	32.7	33.3	33.3	33.9	34.9	35.6	36.4
80°	25.9	26.3	25.9	26.3	26.7	26.9	26.7	26.9	28.0	28.6	28.6
82.5°	20.2	20.2	20.4	20.4	20.5	20.6	21.0	21.1	21.8	21.7	21.9
85°	11.9	11.7	11.7	11.7	11.9	12.3	11.9	11.9	12.3	12.3	12.3
87.5°	7.0	7.2	7.2	7.2	7.2	7.2	7.2	7.6	7.3	7.6	7.0
90°	13.7	13.6	13.6	13.5	13.4	13.5	13.6	13.8	14.0	14.2	12.1
92.5°	13.1	13.1	13.0	13.0	13.0	13.0	12.9	12.9	12.8	12.8	12.4
95°	25.1	25.2	25.4	25.6	25.8	25.9	25.9	25.9	25.9	25.9	25.7
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.2
100°	55.4	55.5	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.5
102.5°	68.9	69.0	69.1	69.2	69.3	69.3	69.2	69.1	69.1	69.0	68.7
105°	89.7	89.7	89.7	89.7	89.7	89.6	89.4	89.3	89.1	88.9	88.7
107.5°	109.2	109.7	110.0	110.5	110.9	111.1	111.0	110.9	110.8	110.8	110.8
110°	124.4	124.7	124.9	125.2	125.5	125.6	125.6	125.6	125.6	125.6	125.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	139.0	139.2	139.4	139.6	139.7	140.0	140.2	140.4	140.6	140.8	140.9
115°	161.6	161.8	162.1	162.4	162.6	162.8	162.9	163.0	163.1	163.2	163.4
117.5°	183.2	183.4	183.7	184.0	184.2	184.5	184.7	184.9	185.1	185.4	185.8
120°	198.4	198.7	198.9	199.2	199.5	199.6	199.6	199.6	199.6	199.6	200.3
122.5°	213.2	213.4	213.7	213.8	214.0	214.2	214.5	214.6	214.9	215.1	215.6
125°	235.9	236.0	236.1	236.2	236.3	236.5	236.7	237.0	237.3	237.6	237.8
127.5°	256.6	256.9	257.2	257.4	257.8	258.1	258.4	258.7	259.0	259.4	259.7
130°	271.5	271.9	272.2	272.6	273.0	273.2	273.4	273.6	273.8	273.9	274.1
132.5°	285.7	286.0	286.2	286.6	286.9	287.2	287.6	288.0	288.4	288.7	288.7
135°	307.8	308.1	308.4	308.6	308.9	309.1	309.2	309.2	309.3	309.4	309.2
137.5°	327.9	328.2	328.6	329.0	329.3	329.6	329.6	329.7	329.8	329.8	329.6
140°	341.8	342.1	342.5	342.9	343.2	343.4	343.4	343.4	343.4	343.4	343.0
142.5°	354.4	354.7	355.1	355.4	355.8	356.0	355.9	355.8	355.8	355.7	355.3
145°	373.3	373.6	374.0	374.3	374.7	374.9	374.8	374.7	374.6	374.5	374.0
147.5°	390.2	390.5	390.8	391.2	391.6	391.6	391.5	391.2	391.0	390.8	390.5
150°	401.2	401.4	401.7	402.0	402.3	402.3	402.0	401.7	401.4	401.2	400.8
152.5°	411.5	411.9	412.1	412.5	412.9	412.9	412.5	412.1	411.9	411.5	411.1
155°	425.4	425.7	426.0	426.2	426.5	426.4	426.0	425.5	425.1	424.6	424.4
157.5°	437.4	437.8	438.2	438.6	439.1	439.0	438.4	437.7	437.2	436.6	436.4
160°	444.8	445.1	445.5	445.9	446.2	446.1	445.6	445.1	444.5	444.0	443.9
162.5°	451.3	451.7	452.1	452.5	453.0	452.9	452.3	451.7	451.0	450.5	450.4
165°	459.8	460.2	460.7	461.1	461.5	461.5	460.8	460.2	459.6	459.0	459.0
167.5°	466.7	467.2	467.6	468.1	468.6	468.5	467.9	467.3	466.6	466.0	466.0
170°	470.3	470.8	471.4	471.9	472.4	472.3	471.7	471.1	470.5	469.8	469.9
172.5°	473.1	473.7	474.2	474.7	475.3	475.3	474.7	474.0	473.4	472.8	472.9
175°	476.4	476.9	477.4	478.0	478.5	478.4	477.8	477.2	476.5	475.9	476.1
177.5°	477.8	478.2	478.7	479.0	479.5	479.5	479.0	478.7	478.2	477.8	477.9
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	981.2	979.2	977.3	972.5	970.1	964.7	963.9	963.7	956.8	950.1	948.2
5°	1014.9	1009.7	1001.7	992.3	982.7	972.7	966.0	960.7	947.4	934.7	927.4
7.5°	1048.9	1037.5	1023.7	1006.0	991.3	974.8	962.6	951.5	932.6	914.5	902.3
10°	1074.2	1055.6	1037.3	1013.0	994.0	975.4	958.1	943.1	921.8	897.8	880.7
12.5°	1089.9	1069.4	1044.2	1020.5	995.9	972.1	949.0	929.7	904.7	879.9	859.7
15°	1111.3	1089.2	1058.6	1024.7	993.0	962.1	935.4	911.4	878.8	849.2	824.5
17.5°	1128.6	1098.3	1065.4	1026.2	989.5	950.2	915.9	885.2	848.9	813.2	784.2
20°	1134.2	1104.2	1066.2	1027.0	983.6	937.4	900.4	867.1	828.1	789.2	755.9
22.5°	1130.7	1107.4	1065.1	1018.2	973.8	925.4	883.7	845.0	801.8	762.1	723.4
25°	1107.2	1099.2	1059.3	1008.0	957.3	901.1	852.8	810.5	761.3	718.6	676.6
27.5°	1052.4	1069.7	1044.9	990.2	934.0	873.6	819.4	771.2	720.1	672.1	630.3
30°	999.7	1039.3	1028.6	978.0	915.1	855.8	794.9	744.6	690.0	640.7	599.4
32.5°	927.5	992.9	1003.4	961.0	895.9	830.7	766.9	716.8	659.9	607.9	567.7
35°	812.5	910.4	955.4	928.4	863.1	792.9	726.9	668.7	611.4	560.1	520.1
37.5°	675.4	808.7	883.7	885.6	825.6	752.6	680.8	622.9	564.3	514.0	470.7
40°	586.4	730.9	828.5	850.2	799.5	720.6	648.0	589.1	531.8	482.5	432.9
42.5°	506.5	650.5	770.4	808.1	767.9	689.5	616.6	555.0	499.3	452.6	402.0
45°	409.6	535.5	667.6	734.9	712.7	640.0	563.1	504.5	452.2	411.9	363.3
47.5°	345.5	434.3	562.1	653.2	652.7	586.5	510.9	454.7	406.2	368.5	329.0
50°	309.0	386.3	494.5	597.7	606.4	550.8	478.8	423.2	378.0	338.3	306.7
52.5°	276.3	339.9	437.2	536.2	560.8	512.6	442.9	391.6	347.6	311.1	284.0
55°	233.4	282.7	356.7	449.2	486.5	452.5	390.6	342.7	307.0	276.4	253.1
57.5°	197.4	234.4	293.7	368.3	411.7	390.3	339.3	300.3	269.8	242.1	223.7
60°	174.9	205.1	255.4	317.7	365.6	350.6	307.0	270.7	244.8	220.8	203.5
62.5°	153.6	179.6	222.7	273.2	317.2	310.9	275.4	244.9	222.1	200.3	185.7
65°	123.5	142.5	176.1	215.8	251.1	254.0	228.5	207.8	187.4	170.1	157.2
67.5°	98.4	110.8	134.5	167.8	194.3	203.8	188.1	172.3	156.1	142.8	131.5
70°	82.9	92.9	110.2	137.2	161.5	171.5	162.5	150.2	136.2	125.2	115.6
72.5°	67.2	77.0	89.7	109.5	130.4	141.2	138.0	129.1	117.8	108.7	99.6
75°	50.6	53.6	62.2	75.6	91.9	101.2	103.5	98.9	89.9	82.9	77.6
77.5°	37.5	39.2	43.3	50.4	61.0	69.3	72.8	72.2	66.0	62.0	57.0
80°	30.0	30.9	33.0	35.9	44.0	52.3	54.6	54.6	50.3	48.6	43.6
82.5°	22.7	23.5	24.7	26.4	30.1	37.4	39.9	40.5	37.7	35.6	31.7
85°	13.0	12.7	13.3	14.4	15.0	16.9	21.0	21.7	21.0	18.3	17.3
87.5°	6.6	6.4	6.1	5.4	5.5	5.6	6.7	7.8	7.0	6.3	6.1
90°	10.2	8.2	6.2	4.7	3.7	2.6	1.5	0.4	1.5	2.6	3.7
92.5°	11.9	11.4	11.0	10.3	9.5	8.7	8.0	7.2	8.0	8.7	9.5
95°	25.5	25.3	25.1	24.6	23.7	22.8	21.9	21.0	21.9	22.8	23.7
97.5°	42.8	42.4	42.1	41.6	40.8	39.9	39.1	38.3	39.1	39.9	40.8
100°	55.2	54.9	54.7	54.2	53.5	52.7	52.0	51.3	52.0	52.7	53.5
102.5°	68.3	67.9	67.7	67.1	66.6	66.0	65.5	64.9	65.5	66.0	66.6
105°	88.5	88.4	88.2	87.9	87.7	87.4	87.1	86.9	87.1	87.4	87.7
107.5°	110.8	110.8	110.8	110.6	110.2	109.8	109.4	109.0	109.4	109.8	110.2
110°	125.6	125.6	125.6	125.4	124.8	124.3	123.8	123.2	123.8	124.3	124.8



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	141.0	141.1	141.2	140.9	140.4	139.8	139.3	138.8	139.3	139.8	140.4
115°	163.5	163.7	163.9	163.7	163.2	162.6	162.1	161.6	162.1	162.6	163.2
117.5°	186.4	186.9	187.3	187.3	186.5	185.8	185.1	184.4	185.1	185.8	186.5
120°	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6	200.3	201.0	201.7
122.5°	216.1	216.6	217.1	217.0	216.1	215.2	214.4	213.5	214.4	215.2	216.1
125°	238.1	238.4	238.6	238.4	237.6	236.7	235.9	235.1	235.9	236.7	237.6
127.5°	260.0	260.4	260.6	260.3	259.3	258.2	257.3	256.2	257.3	258.2	259.3
130°	274.3	274.5	274.6	274.1	273.0	271.8	270.6	269.5	270.6	271.8	273.0
132.5°	288.7	288.6	288.6	288.1	287.2	286.2	285.3	284.4	285.3	286.2	287.2
135°	309.1	308.9	308.7	308.2	307.2	306.2	305.2	304.3	305.2	306.2	307.2
137.5°	329.4	329.1	328.9	328.3	327.5	326.7	325.9	325.1	325.9	326.7	327.5
140°	342.5	342.1	341.6	341.0	340.2	339.4	338.6	337.8	338.6	339.4	340.2
142.5°	355.1	354.7	354.5	353.9	353.1	352.3	351.5	350.7	351.5	352.3	353.1
145°	373.4	372.9	372.4	371.8	371.1	370.5	369.9	369.3	369.9	370.5	371.1
147.5°	390.1	389.8	389.4	388.9	388.1	387.4	386.6	385.8	386.6	387.4	388.1
150°	400.5	400.1	399.8	399.3	398.8	398.2	397.7	397.2	397.7	398.2	398.8
152.5°	410.6	410.2	409.8	409.3	408.8	408.2	407.7	407.2	407.7	408.2	408.8
155°	424.1	423.8	423.6	423.3	423.0	422.7	422.4	422.1	422.4	422.7	423.0
157.5°	436.2	436.0	435.9	435.8	435.6	435.4	435.2	435.1	435.2	435.4	435.6
160°	443.8	443.7	443.6	443.5	443.4	443.2	443.0	442.8	443.0	443.2	443.4
162.5°	450.3	450.2	450.1	450.0	450.0	450.0	450.0	449.9	450.0	450.0	450.0
165°	459.0	459.0	459.0	459.0	459.1	459.1	459.2	459.3	459.2	459.1	459.1
167.5°	466.0	466.0	466.0	466.2	466.5	466.7	467.0	467.3	467.0	466.7	466.5
170°	470.0	470.1	470.2	470.4	470.6	470.9	471.2	471.4	471.2	470.9	470.6
172.5°	473.0	473.1	473.1	473.3	473.6	473.9	474.1	474.4	474.1	473.9	473.6
175°	476.3	476.4	476.6	476.9	477.2	477.4	477.7	478.0	477.7	477.4	477.2
177.5°	478.0	478.2	478.3	478.5	478.8	478.9	479.2	479.4	479.2	478.9	478.8
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	944.8	942.9	939.4	934.2	930.9	925.3	921.6	923.7	924.3	923.7	923.2
5°	919.4	912.4	902.8	893.4	884.8	875.5	870.1	867.8	863.1	860.5	859.2
7.5°	888.7	876.6	863.0	846.8	832.9	818.5	811.1	807.4	797.9	792.7	788.2
10°	865.8	846.8	833.1	811.8	798.9	779.9	766.9	767.2	754.2	746.9	741.5
12.5°	840.5	819.7	796.9	777.8	759.7	744.5	728.8	722.5	708.6	701.6	687.2
15°	798.5	774.2	750.3	724.2	706.0	682.3	659.7	632.0	609.8	590.4	585.1
17.5°	752.7	722.6	698.6	668.1	636.7	596.9	570.7	554.6	541.2	531.0	523.4
20°	721.3	690.6	665.0	619.0	576.8	549.7	530.5	518.2	504.2	493.2	487.1
22.5°	688.2	656.3	621.3	570.0	537.1	515.4	498.2	484.0	474.6	466.0	460.6
25°	641.3	606.4	548.8	513.4	486.9	464.2	452.2	443.5	433.5	421.9	416.6
27.5°	591.8	536.2	494.8	468.6	443.2	428.5	417.7	404.7	395.8	390.6	385.0
30°	554.7	499.2	466.9	438.2	420.3	403.9	391.3	384.0	375.3	366.3	362.7
32.5°	513.4	469.0	438.1	414.3	396.0	382.1	372.1	360.3	354.0	348.5	340.8
35°	462.2	428.6	400.3	380.9	363.6	352.3	340.6	333.7	322.4	317.7	314.7
37.5°	418.7	389.6	368.5	348.1	334.4	321.9	314.8	303.6	298.7	292.2	285.9
40°	394.2	365.6	345.4	328.7	313.3	304.0	295.1	286.1	278.7	275.7	268.0
42.5°	369.3	345.9	325.6	307.4	297.1	287.2	275.9	269.3	261.6	256.8	252.1
45°	334.7	314.1	296.7	281.7	270.4	260.1	252.7	241.7	237.5	227.7	223.7
47.5°	304.3	285.1	268.6	254.3	243.3	236.6	225.9	217.2	210.4	204.4	199.3
50°	282.7	266.7	250.7	238.1	228.1	218.5	207.5	203.1	192.4	189.5	186.5
52.5°	263.0	247.8	233.2	220.8	210.8	201.4	191.7	186.1	178.9	175.8	173.7
55°	235.4	220.8	206.8	195.8	185.8	176.1	170.1	163.2	159.8	157.5	154.8
57.5°	207.7	194.6	183.8	172.7	162.6	155.0	148.0	143.8	140.4	137.3	134.1
60°	190.1	177.5	167.8	157.5	147.2	140.9	135.5	130.5	126.5	121.9	120.6
62.5°	171.5	160.4	151.6	141.5	132.5	126.7	121.7	117.0	112.2	105.4	103.5
65°	145.9	137.2	127.9	119.6	111.6	105.9	98.5	93.3	91.2	90.6	90.2
67.5°	122.7	114.5	106.5	98.0	90.7	85.4	81.7	80.9	79.5	79.1	78.2
70°	107.2	99.6	91.6	83.6	76.6	75.6	74.3	72.9	71.2	70.6	69.9
72.5°	93.4	85.4	77.5	71.1	68.0	66.8	65.5	64.1	63.0	62.3	62.0
75°	71.6	64.3	58.9	56.6	54.9	53.9	52.0	50.9	50.3	49.3	49.0
77.5°	51.5	47.4	44.9	43.5	41.7	40.7	39.6	38.5	37.8	37.6	37.1
80°	39.3	37.3	35.7	33.6	33.0	31.7	31.3	30.3	30.7	29.6	29.6
82.5°	30.5	28.0	26.6	25.7	25.0	23.9	23.5	23.1	23.2	22.5	22.5
85°	15.7	15.0	14.4	13.6	13.6	12.7	13.0	12.7	12.7	11.9	11.7
87.5°	6.0	6.1	5.9	6.3	6.7	6.9	6.8	6.5	6.4	6.4	6.2
90°	4.7	6.2	8.2	10.2	12.1	14.2	14.0	13.8	13.6	13.5	13.4
92.5°	10.3	11.0	11.4	11.9	12.4	12.8	12.8	12.9	12.9	13.0	13.0
95°	24.6	25.1	25.3	25.5	25.7	25.9	25.9	25.9	25.9	25.9	25.8
97.5°	41.6	42.1	42.4	42.8	43.2	43.4	43.4	43.4	43.4	43.4	43.4
100°	54.2	54.7	54.9	55.2	55.5	55.7	55.7	55.7	55.7	55.7	55.7
102.5°	67.1	67.7	67.9	68.3	68.7	69.0	69.1	69.1	69.2	69.3	69.3
105°	87.9	88.2	88.4	88.5	88.7	88.9	89.1	89.3	89.4	89.6	89.7
107.5°	110.6	110.8	110.8	110.8	110.8	110.8	110.8	110.9	111.0	111.1	110.9
110°	125.4	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.5



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	140.9	141.2	141.1	141.0	140.9	140.8	140.6	140.4	140.2	140.0	139.7
115°	163.7	163.9	163.7	163.5	163.4	163.2	163.1	163.0	162.9	162.8	162.6
117.5°	187.3	187.3	186.9	186.4	185.8	185.4	185.1	184.9	184.7	184.5	184.2
120°	202.4	202.4	201.7	201.0	200.3	199.6	199.6	199.6	199.6	199.6	199.5
122.5°	217.0	217.1	216.6	216.1	215.6	215.1	214.9	214.6	214.5	214.2	214.0
125°	238.4	238.6	238.4	238.1	237.8	237.6	237.3	237.0	236.7	236.5	236.3
127.5°	260.3	260.6	260.4	260.0	259.7	259.4	259.0	258.7	258.4	258.1	257.8
130°	274.1	274.6	274.5	274.3	274.1	273.9	273.8	273.6	273.4	273.2	273.0
132.5°	288.1	288.6	288.6	288.7	288.7	288.7	288.4	288.0	287.6	287.2	286.9
135°	308.2	308.7	308.9	309.1	309.2	309.4	309.3	309.2	309.2	309.1	308.9
137.5°	328.3	328.9	329.1	329.4	329.6	329.8	329.8	329.7	329.6	329.6	329.3
140°	341.0	341.6	342.1	342.5	343.0	343.4	343.4	343.4	343.4	343.4	343.2
142.5°	353.9	354.5	354.7	355.1	355.3	355.7	355.8	355.8	355.9	356.0	355.8
145°	371.8	372.4	372.9	373.4	374.0	374.5	374.6	374.7	374.8	374.9	374.7
147.5°	388.9	389.4	389.8	390.1	390.5	390.8	391.0	391.2	391.5	391.6	391.6
150°	399.3	399.8	400.1	400.5	400.8	401.2	401.4	401.7	402.0	402.3	402.3
152.5°	409.3	409.8	410.2	410.6	411.1	411.5	411.9	412.1	412.5	412.9	412.9
155°	423.3	423.6	423.8	424.1	424.4	424.6	425.1	425.5	426.0	426.4	426.5
157.5°	435.8	435.9	436.0	436.2	436.4	436.6	437.2	437.7	438.4	439.0	439.1
160°	443.5	443.6	443.7	443.8	443.9	444.0	444.5	445.1	445.6	446.1	446.2
162.5°	450.0	450.1	450.2	450.3	450.4	450.5	451.0	451.7	452.3	452.9	453.0
165°	459.0	459.0	459.0	459.0	459.0	459.0	459.6	460.2	460.8	461.5	461.5
167.5°	466.2	466.0	466.0	466.0	466.0	466.0	466.6	467.3	467.9	468.5	468.6
170°	470.4	470.2	470.1	470.0	469.9	469.8	470.5	471.1	471.7	472.3	472.4
172.5°	473.3	473.1	473.1	473.0	472.9	472.8	473.4	474.0	474.7	475.3	475.3
175°	476.9	476.6	476.4	476.3	476.1	475.9	476.5	477.2	477.8	478.4	478.5
177.5°	478.5	478.3	478.2	478.0	477.9	477.8	478.2	478.7	479.0	479.5	479.5
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	920.2	920.8	920.0	920.5	920.0	920.8	920.2	923.2	923.7	924.3	923.7
5°	857.5	853.5	852.8	851.9	852.8	853.5	857.5	859.2	860.5	863.1	867.8
7.5°	782.5	781.9	780.2	777.8	780.2	781.9	782.5	788.2	792.7	797.9	807.4
10°	734.2	732.6	732.3	730.0	732.3	732.6	734.2	741.5	746.9	754.2	767.2
12.5°	677.8	667.1	665.9	660.1	665.9	667.1	677.8	687.2	701.6	708.6	722.5
15°	577.1	575.1	568.5	564.1	568.5	575.1	577.1	585.1	590.4	609.8	632.0
17.5°	519.5	513.0	511.0	510.1	511.0	513.0	519.5	523.4	531.0	541.2	554.6
20°	482.5	476.5	475.5	474.8	475.5	476.5	482.5	487.1	493.2	504.2	518.2
22.5°	456.9	450.7	448.1	446.1	448.1	450.7	456.9	460.6	466.0	474.6	484.0
25°	413.2	410.9	409.6	408.9	409.6	410.9	413.2	416.6	421.9	433.5	443.5
27.5°	379.1	374.0	372.9	371.2	372.9	374.0	379.1	385.0	390.6	395.8	404.7
30°	359.6	357.9	355.6	353.7	355.6	357.9	359.6	362.7	366.3	375.3	384.0
32.5°	336.7	335.4	333.2	332.3	333.2	335.4	336.7	340.8	348.5	354.0	360.3
35°	311.4	306.7	304.7	301.7	304.7	306.7	311.4	314.7	317.7	322.4	333.7
37.5°	284.5	282.0	279.3	280.3	279.3	282.0	284.5	285.9	292.2	298.7	303.6
40°	263.8	262.1	261.4	261.1	261.4	262.1	263.8	268.0	275.7	278.7	286.1
42.5°	247.2	242.6	240.9	240.9	240.9	242.6	247.2	252.1	256.8	261.6	269.3
45°	222.1	217.8	214.8	215.1	214.8	217.8	222.1	223.7	227.7	237.5	241.7
47.5°	196.4	196.3	194.4	195.0	194.4	196.3	196.4	199.3	204.4	210.4	217.2
50°	184.1	182.2	180.8	181.1	180.8	182.2	184.1	186.5	189.5	192.4	203.1
52.5°	172.5	170.7	169.6	171.0	169.6	170.7	172.5	173.7	175.8	178.9	186.1
55°	153.2	151.1	150.9	150.5	150.9	151.1	153.2	154.8	157.5	159.8	163.2
57.5°	131.7	130.4	128.3	127.5	128.3	130.4	131.7	134.1	137.3	140.4	143.8
60°	116.2	113.5	110.2	109.9	110.2	113.5	116.2	120.6	121.9	126.5	130.5
62.5°	102.1	101.6	100.9	100.9	100.9	101.6	102.1	103.5	105.4	112.2	117.0
65°	89.6	89.3	89.6	89.9	89.6	89.3	89.6	90.2	90.6	91.2	93.3
67.5°	78.0	77.5	76.9	77.1	76.9	77.5	78.0	78.2	79.1	79.5	80.9
70°	69.3	68.9	68.6	68.6	68.6	68.9	69.3	69.9	70.6	71.2	72.9
72.5°	60.7	60.6	60.4	60.1	60.4	60.6	60.7	62.0	62.3	63.0	64.1
75°	48.6	48.0	48.0	48.0	48.0	48.0	48.6	49.0	49.3	50.3	50.9
77.5°	37.0	36.7	36.4	36.1	36.4	36.7	37.0	37.1	37.6	37.8	38.5
80°	29.3	29.0	28.6	28.6	28.6	29.0	29.3	29.6	29.6	30.7	30.3
82.5°	22.4	22.0	21.9	21.7	21.9	22.0	22.4	22.5	22.5	23.2	23.1
85°	11.9	12.3	11.9	12.7	11.9	12.3	11.9	11.7	11.9	12.7	12.7
87.5°	6.2	5.9	6.2	6.0	6.2	5.9	6.2	6.2	6.4	6.4	6.5
90°	13.5	13.6	13.6	13.7	13.6	13.6	13.5	13.4	13.5	13.6	13.8
92.5°	13.0	13.0	13.1	13.1	13.1	13.0	13.0	13.0	13.0	12.9	12.9
95°	25.6	25.4	25.2	25.1	25.2	25.4	25.6	25.8	25.9	25.9	25.9
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
100°	55.6	55.6	55.5	55.4	55.5	55.6	55.6	55.7	55.7	55.7	55.7
102.5°	69.2	69.1	69.0	68.9	69.0	69.1	69.2	69.3	69.3	69.2	69.1
105°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.6	89.4	89.3
107.5°	110.5	110.0	109.7	109.2	109.7	110.0	110.5	110.9	111.1	111.0	110.9
110°	125.2	124.9	124.7	124.4	124.7	124.9	125.2	125.5	125.6	125.6	125.6



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	139.6	139.4	139.2	139.0	139.2	139.4	139.6	139.7	140.0	140.2	140.4
115°	162.4	162.1	161.8	161.6	161.8	162.1	162.4	162.6	162.8	162.9	163.0
117.5°	184.0	183.7	183.4	183.2	183.4	183.7	184.0	184.2	184.5	184.7	184.9
120°	199.2	198.9	198.7	198.4	198.7	198.9	199.2	199.5	199.6	199.6	199.6
122.5°	213.8	213.7	213.4	213.2	213.4	213.7	213.8	214.0	214.2	214.5	214.6
125°	236.2	236.1	236.0	235.9	236.0	236.1	236.2	236.3	236.5	236.7	237.0
127.5°	257.4	257.2	256.9	256.6	256.9	257.2	257.4	257.8	258.1	258.4	258.7
130°	272.6	272.2	271.9	271.5	271.9	272.2	272.6	273.0	273.2	273.4	273.6
132.5°	286.6	286.2	286.0	285.7	286.0	286.2	286.6	286.9	287.2	287.6	288.0
135°	308.6	308.4	308.1	307.8	308.1	308.4	308.6	308.9	309.1	309.2	309.2
137.5°	329.0	328.6	328.2	327.9	328.2	328.6	329.0	329.3	329.6	329.6	329.7
140°	342.9	342.5	342.1	341.8	342.1	342.5	342.9	343.2	343.4	343.4	343.4
142.5°	355.4	355.1	354.7	354.4	354.7	355.1	355.4	355.8	356.0	355.9	355.8
145°	374.3	374.0	373.6	373.3	373.6	374.0	374.3	374.7	374.9	374.8	374.7
147.5°	391.2	390.8	390.5	390.2	390.5	390.8	391.2	391.6	391.6	391.5	391.2
150°	402.0	401.7	401.4	401.2	401.4	401.7	402.0	402.3	402.3	402.0	401.7
152.5°	412.5	412.1	411.9	411.5	411.9	412.1	412.5	412.9	412.9	412.5	412.1
155°	426.2	426.0	425.7	425.4	425.7	426.0	426.2	426.5	426.4	426.0	425.5
157.5°	438.6	438.2	437.8	437.4	437.8	438.2	438.6	439.1	439.0	438.4	437.7
160°	445.9	445.5	445.1	444.8	445.1	445.5	445.9	446.2	446.1	445.6	445.1
162.5°	452.5	452.1	451.7	451.3	451.7	452.1	452.5	453.0	452.9	452.3	451.7
165°	461.1	460.7	460.2	459.8	460.2	460.7	461.1	461.5	461.5	460.8	460.2
167.5°	468.1	467.6	467.2	466.7	467.2	467.6	468.1	468.6	468.5	467.9	467.3
170°	471.9	471.4	470.8	470.3	470.8	471.4	471.9	472.4	472.3	471.7	471.1
172.5°	474.7	474.2	473.7	473.1	473.7	474.2	474.7	475.3	475.3	474.7	474.0
175°	478.0	477.4	476.9	476.4	476.9	477.4	478.0	478.5	478.4	477.8	477.2
177.5°	479.0	478.7	478.2	477.8	478.2	478.7	479.0	479.5	479.5	479.0	478.7
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	921.6	925.3	930.9	934.2	939.4	942.9	944.8	948.2	950.1	956.8	963.7
5°	870.1	875.5	884.8	893.4	902.8	912.4	919.4	927.4	934.7	947.4	960.7
7.5°	811.1	818.5	832.9	846.8	863.0	876.6	888.7	902.3	914.5	932.6	951.5
10°	766.9	779.9	798.9	811.8	833.1	846.8	865.8	880.7	897.8	921.8	943.1
12.5°	728.8	744.5	759.7	777.8	796.9	819.7	840.5	859.7	879.9	904.7	929.7
15°	659.7	682.3	706.0	724.2	750.3	774.2	798.5	824.5	849.2	878.8	911.4
17.5°	570.7	596.9	636.7	668.1	698.6	722.6	752.7	784.2	813.2	848.9	885.2
20°	530.5	549.7	576.8	619.0	665.0	690.6	721.3	755.9	789.2	828.1	867.1
22.5°	498.2	515.4	537.1	570.0	621.3	656.3	688.2	723.4	762.1	801.8	845.0
25°	452.2	464.2	486.9	513.4	548.8	606.4	641.3	676.6	718.6	761.3	810.5
27.5°	417.7	428.5	443.2	468.6	494.8	536.2	591.8	630.3	672.1	720.1	771.2
30°	391.3	403.9	420.3	438.2	466.9	499.2	554.7	599.4	640.7	690.0	744.6
32.5°	372.1	382.1	396.0	414.3	438.1	469.0	513.4	567.7	607.9	659.9	716.8
35°	340.6	352.3	363.6	380.9	400.3	428.6	462.2	520.1	560.1	611.4	668.7
37.5°	314.8	321.9	334.4	348.1	368.5	389.6	418.7	470.7	514.0	564.3	622.9
40°	295.1	304.0	313.3	328.7	345.4	365.6	394.2	432.9	482.5	531.8	589.1
42.5°	275.9	287.2	297.1	307.4	325.6	345.9	369.3	402.0	452.6	499.3	555.0
45°	252.7	260.1	270.4	281.7	296.7	314.1	334.7	363.3	411.9	452.2	504.5
47.5°	225.9	236.6	243.3	254.3	268.6	285.1	304.3	329.0	368.5	406.2	454.7
50°	207.5	218.5	228.1	238.1	250.7	266.7	282.7	306.7	338.3	378.0	423.2
52.5°	191.7	201.4	210.8	220.8	233.2	247.8	263.0	284.0	311.1	347.6	391.6
55°	170.1	176.1	185.8	195.8	206.8	220.8	235.4	253.1	276.4	307.0	342.7
57.5°	148.0	155.0	162.6	172.7	183.8	194.6	207.7	223.7	242.1	269.8	300.3
60°	135.5	140.9	147.2	157.5	167.8	177.5	190.1	203.5	220.8	244.8	270.7
62.5°	121.7	126.7	132.5	141.5	151.6	160.4	171.5	185.7	200.3	222.1	244.9
65°	98.5	105.9	111.6	119.6	127.9	137.2	145.9	157.2	170.1	187.4	207.8
67.5°	81.7	85.4	90.7	98.0	106.5	114.5	122.7	131.5	142.8	156.1	172.3
70°	74.3	75.6	76.6	83.6	91.6	99.6	107.2	115.6	125.2	136.2	150.2
72.5°	65.5	66.8	68.0	71.1	77.5	85.4	93.4	99.6	108.7	117.8	129.1
75°	52.0	53.9	54.9	56.6	58.9	64.3	71.6	77.6	82.9	89.9	98.9
77.5°	39.6	40.7	41.7	43.5	44.9	47.4	51.5	57.0	62.0	66.0	72.2
80°	31.3	31.7	33.0	33.6	35.7	37.3	39.3	43.6	48.6	50.3	54.6
82.5°	23.5	23.9	25.0	25.7	26.6	28.0	30.5	31.7	35.6	37.7	40.5
85°	13.0	12.7	13.6	13.6	14.4	15.0	15.7	17.3	18.3	21.0	21.7
87.5°	6.8	6.9	6.7	6.3	5.9	6.1	6.0	6.1	6.3	7.0	7.8
90°	14.0	14.2	12.1	10.2	8.2	6.2	4.7	3.7	2.6	1.5	0.4
92.5°	12.8	12.8	12.4	11.9	11.4	11.0	10.3	9.5	8.7	8.0	7.2
95°	25.9	25.9	25.7	25.5	25.3	25.1	24.6	23.7	22.8	21.9	21.0
97.5°	43.4	43.4	43.2	42.8	42.4	42.1	41.6	40.8	39.9	39.1	38.3
100°	55.7	55.7	55.5	55.2	54.9	54.7	54.2	53.5	52.7	52.0	51.3
102.5°	69.1	69.0	68.7	68.3	67.9	67.7	67.1	66.6	66.0	65.5	64.9
105°	89.1	88.9	88.7	88.5	88.4	88.2	87.9	87.7	87.4	87.1	86.9
107.5°	110.8	110.8	110.8	110.8	110.8	110.8	110.6	110.2	109.8	109.4	109.0
110°	125.6	125.6	125.6	125.6	125.6	125.6	125.4	124.8	124.3	123.8	123.2



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	140.6	140.8	140.9	141.0	141.1	141.2	140.9	140.4	139.8	139.3	138.8
115°	163.1	163.2	163.4	163.5	163.7	163.9	163.7	163.2	162.6	162.1	161.6
117.5°	185.1	185.4	185.8	186.4	186.9	187.3	187.3	186.5	185.8	185.1	184.4
120°	199.6	199.6	200.3	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6
122.5°	214.9	215.1	215.6	216.1	216.6	217.1	217.0	216.1	215.2	214.4	213.5
125°	237.3	237.6	237.8	238.1	238.4	238.6	238.4	237.6	236.7	235.9	235.1
127.5°	259.0	259.4	259.7	260.0	260.4	260.6	260.3	259.3	258.2	257.3	256.2
130°	273.8	273.9	274.1	274.3	274.5	274.6	274.1	273.0	271.8	270.6	269.5
132.5°	288.4	288.7	288.7	288.7	288.6	288.6	288.1	287.2	286.2	285.3	284.4
135°	309.3	309.4	309.2	309.1	308.9	308.7	308.2	307.2	306.2	305.2	304.3
137.5°	329.8	329.8	329.6	329.4	329.1	328.9	328.3	327.5	326.7	325.9	325.1
140°	343.4	343.4	343.0	342.5	342.1	341.6	341.0	340.2	339.4	338.6	337.8
142.5°	355.8	355.7	355.3	355.1	354.7	354.5	353.9	353.1	352.3	351.5	350.7
145°	374.6	374.5	374.0	373.4	372.9	372.4	371.8	371.1	370.5	369.9	369.3
147.5°	391.0	390.8	390.5	390.1	389.8	389.4	388.9	388.1	387.4	386.6	385.8
150°	401.4	401.2	400.8	400.5	400.1	399.8	399.3	398.8	398.2	397.7	397.2
152.5°	411.9	411.5	411.1	410.6	410.2	409.8	409.3	408.8	408.2	407.7	407.2
155°	425.1	424.6	424.4	424.1	423.8	423.6	423.3	423.0	422.7	422.4	422.1
157.5°	437.2	436.6	436.4	436.2	436.0	435.9	435.8	435.6	435.4	435.2	435.1
160°	444.5	444.0	443.9	443.8	443.7	443.6	443.5	443.4	443.2	443.0	442.8
162.5°	451.0	450.5	450.4	450.3	450.2	450.1	450.0	450.0	450.0	450.0	449.9
165°	459.6	459.0	459.0	459.0	459.0	459.0	459.0	459.1	459.1	459.2	459.3
167.5°	466.6	466.0	466.0	466.0	466.0	466.0	466.2	466.5	466.7	467.0	467.3
170°	470.5	469.8	469.9	470.0	470.1	470.2	470.4	470.6	470.9	471.2	471.4
172.5°	473.4	472.8	472.9	473.0	473.1	473.1	473.3	473.6	473.9	474.1	474.4
175°	476.5	475.9	476.1	476.3	476.4	476.6	476.9	477.2	477.4	477.7	478.0
177.5°	478.2	477.8	477.9	478.0	478.2	478.3	478.5	478.8	478.9	479.2	479.4
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	963.9	964.7	970.1	972.5	977.3	979.2	981.2	980.7	980.7	981.8	989.3
5°	966.0	972.7	982.7	992.3	1001.7	1009.7	1014.9	1020.3	1022.3	1032.0	1040.6
7.5°	962.6	974.8	991.3	1006.0	1023.7	1037.5	1048.9	1059.3	1066.3	1080.4	1094.8
10°	958.1	975.4	994.0	1013.0	1037.3	1055.6	1074.2	1088.6	1093.2	1114.2	1126.2
12.5°	949.0	972.1	995.9	1020.5	1044.2	1069.4	1089.9	1104.3	1120.7	1139.5	1161.6
15°	935.4	962.1	993.0	1024.7	1058.6	1089.2	1111.3	1136.2	1154.1	1174.8	1194.1
17.5°	915.9	950.2	989.5	1026.2	1065.4	1098.3	1128.6	1152.5	1165.2	1177.0	1179.9
20°	900.4	937.4	983.6	1027.0	1066.2	1104.2	1134.2	1154.1	1157.5	1157.8	1140.1
22.5°	883.7	925.4	973.8	1018.2	1065.1	1107.4	1130.7	1139.2	1126.1	1103.5	1069.3
25°	852.8	901.1	957.3	1008.0	1059.3	1099.2	1107.2	1092.3	1046.0	997.3	935.8
27.5°	819.4	873.6	934.0	990.2	1044.9	1069.7	1052.4	998.4	915.0	842.6	754.7
30°	794.9	855.8	915.1	978.0	1028.6	1039.3	999.7	920.1	822.9	713.6	626.1
32.5°	766.9	830.7	895.9	961.0	1003.4	992.9	927.5	829.5	715.5	608.1	525.3
35°	726.9	792.9	863.1	928.4	955.4	910.4	812.5	685.0	568.5	468.2	411.3
37.5°	680.8	752.6	825.6	885.6	883.7	808.7	675.4	543.7	445.8	386.5	345.9
40°	648.0	720.6	799.5	850.2	828.5	730.9	586.4	462.2	390.6	343.3	313.7
42.5°	616.6	689.5	767.9	808.1	770.4	650.5	506.5	409.2	350.1	313.3	289.2
45°	563.1	640.0	712.7	734.9	667.6	535.5	409.6	339.0	299.7	272.4	255.7
47.5°	510.9	586.5	652.7	653.2	562.1	434.3	345.5	293.4	259.8	238.7	226.6
50°	478.8	550.8	606.4	597.7	494.5	386.3	309.0	264.0	236.1	219.8	207.1
52.5°	442.9	512.6	560.8	536.2	437.2	339.9	276.3	238.5	215.3	201.2	189.8
55°	390.6	452.5	486.5	449.2	356.7	282.7	233.4	203.8	186.5	174.5	164.9
57.5°	339.3	390.3	411.7	368.3	293.7	234.4	197.4	175.2	158.0	149.5	144.5
60°	307.0	350.6	365.6	317.7	255.4	205.1	174.9	154.2	141.5	135.9	130.9
62.5°	275.4	310.9	317.2	273.2	222.7	179.6	153.6	136.1	127.7	122.3	117.5
65°	228.5	254.0	251.1	215.8	176.1	142.5	123.5	112.9	106.6	98.9	90.6
67.5°	188.1	203.8	194.3	167.8	134.5	110.8	98.4	90.3	82.5	75.2	73.3
70°	162.5	171.5	161.5	137.2	110.2	92.9	82.9	73.3	68.6	67.0	63.9
72.5°	138.0	141.2	130.4	109.5	89.7	77.0	67.2	61.8	59.3	57.9	55.9
75°	103.5	101.2	91.9	75.6	62.2	53.6	50.6	48.6	47.0	45.7	44.6
77.5°	72.8	69.3	61.0	50.4	43.3	39.2	37.5	36.4	35.6	34.9	33.9
80°	54.6	52.3	44.0	35.9	33.0	30.9	30.0	28.6	28.6	28.0	26.9
82.5°	39.9	37.4	30.1	26.4	24.7	23.5	22.7	21.9	21.7	21.8	21.1
85°	21.0	16.9	15.0	14.4	13.3	12.7	13.0	12.3	12.3	12.3	11.9
87.5°	6.7	5.6	5.5	5.4	6.1	6.4	6.6	7.0	7.6	7.3	7.6
90°	1.5	2.6	3.7	4.7	6.2	8.2	10.2	12.1	14.2	14.0	13.8
92.5°	8.0	8.7	9.5	10.3	11.0	11.4	11.9	12.4	12.8	12.8	12.9
95°	21.9	22.8	23.7	24.6	25.1	25.3	25.5	25.7	25.9	25.9	25.9
97.5°	39.1	39.9	40.8	41.6	42.1	42.4	42.8	43.2	43.4	43.4	43.4
100°	52.0	52.7	53.5	54.2	54.7	54.9	55.2	55.5	55.7	55.7	55.7
102.5°	65.5	66.0	66.6	67.1	67.7	67.9	68.3	68.7	69.0	69.1	69.1
105°	87.1	87.4	87.7	87.9	88.2	88.4	88.5	88.7	88.9	89.1	89.3
107.5°	109.4	109.8	110.2	110.6	110.8	110.8	110.8	110.8	110.8	110.8	110.9
110°	123.8	124.3	124.8	125.4	125.6	125.6	125.6	125.6	125.6	125.6	125.6



TEST NUMBER: P331786-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	139.3	139.8	140.4	140.9	141.2	141.1	141.0	140.9	140.8	140.6	140.4
115°	162.1	162.6	163.2	163.7	163.9	163.7	163.5	163.4	163.2	163.1	163.0
117.5°	185.1	185.8	186.5	187.3	187.3	186.9	186.4	185.8	185.4	185.1	184.9
120°	200.3	201.0	201.7	202.4	202.4	201.7	201.0	200.3	199.6	199.6	199.6
122.5°	214.4	215.2	216.1	217.0	217.1	216.6	216.1	215.6	215.1	214.9	214.6
125°	235.9	236.7	237.6	238.4	238.6	238.4	238.1	237.8	237.6	237.3	237.0
127.5°	257.3	258.2	259.3	260.3	260.6	260.4	260.0	259.7	259.4	259.0	258.7
130°	270.6	271.8	273.0	274.1	274.6	274.5	274.3	274.1	273.9	273.8	273.6
132.5°	285.3	286.2	287.2	288.1	288.6	288.6	288.7	288.7	288.7	288.4	288.0
135°	305.2	306.2	307.2	308.2	308.7	308.9	309.1	309.2	309.4	309.3	309.2
137.5°	325.9	326.7	327.5	328.3	328.9	329.1	329.4	329.6	329.8	329.8	329.7
140°	338.6	339.4	340.2	341.0	341.6	342.1	342.5	343.0	343.4	343.4	343.4
142.5°	351.5	352.3	353.1	353.9	354.5	354.7	355.1	355.3	355.7	355.8	355.8
145°	369.9	370.5	371.1	371.8	372.4	372.9	373.4	374.0	374.5	374.6	374.7
147.5°	386.6	387.4	388.1	388.9	389.4	389.8	390.1	390.5	390.8	391.0	391.2
150°	397.7	398.2	398.8	399.3	399.8	400.1	400.5	400.8	401.2	401.4	401.7
152.5°	407.7	408.2	408.8	409.3	409.8	410.2	410.6	411.1	411.5	411.9	412.1
155°	422.4	422.7	423.0	423.3	423.6	423.8	424.1	424.4	424.6	425.1	425.5
157.5°	435.2	435.4	435.6	435.8	435.9	436.0	436.2	436.4	436.6	437.2	437.7
160°	443.0	443.2	443.4	443.5	443.6	443.7	443.8	443.9	444.0	444.5	445.1
162.5°	450.0	450.0	450.0	450.0	450.1	450.2	450.3	450.4	450.5	451.0	451.7
165°	459.2	459.1	459.1	459.0	459.0	459.0	459.0	459.0	459.0	459.6	460.2
167.5°	467.0	466.7	466.5	466.2	466.0	466.0	466.0	466.0	466.0	466.6	467.3
170°	471.2	470.9	470.6	470.4	470.2	470.1	470.0	469.9	469.8	470.5	471.1
172.5°	474.1	473.9	473.6	473.3	473.1	473.1	473.0	472.9	472.8	473.4	474.0
175°	477.7	477.4	477.2	476.9	476.6	476.4	476.3	476.1	475.9	476.5	477.2
177.5°	479.2	478.9	478.8	478.5	478.3	478.2	478.0	477.9	477.8	478.2	478.7
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8	478.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	991.9	995.4	997.0	997.0	998.9	998.1	997.3
5°	1048.9	1055.3	1056.6	1062.6	1066.9	1065.6	1066.2
7.5°	1105.6	1115.8	1125.9	1130.4	1131.2	1133.9	1134.9
10°	1140.5	1148.9	1164.5	1162.2	1173.8	1180.4	1169.5
12.5°	1174.1	1185.4	1196.2	1199.2	1205.8	1207.9	1203.5
15°	1204.4	1210.4	1211.1	1209.4	1211.5	1209.8	1203.5
17.5°	1176.1	1166.4	1146.7	1137.3	1129.9	1119.0	1114.6
20°	1129.2	1100.5	1067.3	1053.9	1038.3	1007.6	1014.9
22.5°	1028.0	995.3	962.1	923.1	904.6	875.5	873.8
25°	870.5	814.2	752.2	708.9	683.7	654.7	642.0
27.5°	676.8	605.9	555.2	529.5	506.0	483.1	482.1
30°	549.5	496.1	456.9	434.9	420.6	410.9	413.0
32.5°	463.2	426.6	400.1	381.9	371.3	364.0	363.9
35°	378.6	353.7	336.6	329.0	321.4	316.0	316.4
37.5°	324.0	309.0	299.5	291.1	286.3	283.7	282.2
40°	296.0	283.7	276.4	271.4	267.4	263.8	263.1
42.5°	273.9	263.8	256.4	252.4	248.8	246.1	245.5
45°	243.1	234.8	228.1	223.7	222.1	219.8	219.8
47.5°	216.2	208.0	202.9	200.1	197.2	195.7	195.6
50°	198.1	191.8	187.2	185.5	183.2	182.2	181.8
52.5°	181.9	177.2	173.8	172.7	171.7	170.4	170.6
55°	159.8	157.2	155.9	154.8	153.2	151.1	152.5
57.5°	141.2	139.0	135.4	132.2	130.7	129.3	129.8
60°	128.2	123.5	118.9	115.2	114.2	111.2	111.2
62.5°	111.7	105.1	99.4	97.4	96.4	95.0	94.7
65°	85.9	83.3	81.9	80.6	79.9	79.9	79.3
67.5°	71.2	70.1	68.7	68.3	67.7	67.5	67.2
70°	63.0	61.6	60.9	60.6	59.9	60.3	59.3
72.5°	54.9	53.9	53.8	52.9	52.5	52.5	51.8
75°	43.2	43.2	43.0	42.6	42.0	41.6	42.0
77.5°	33.3	33.3	32.7	32.7	32.6	32.7	32.4
80°	26.7	26.9	26.7	26.3	25.9	26.3	25.9
82.5°	21.0	20.6	20.5	20.4	20.4	20.2	20.2
85°	11.9	12.3	11.9	11.7	11.7	11.7	11.9
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.0
90°	13.6	13.5	13.4	13.5	13.6	13.6	13.7
92.5°	12.9	13.0	13.0	13.0	13.0	13.1	13.1
95°	25.9	25.9	25.8	25.6	25.4	25.2	25.1
97.5°	43.4	43.4	43.4	43.4	43.4	43.4	43.4
100°	55.7	55.7	55.7	55.6	55.6	55.5	55.4
102.5°	69.2	69.3	69.3	69.2	69.1	69.0	68.9
105°	89.4	89.6	89.7	89.7	89.7	89.7	89.7
107.5°	111.0	111.1	110.9	110.5	110.0	109.7	109.2
110°	125.6	125.6	125.5	125.2	124.9	124.7	124.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	140.2	140.0	139.7	139.6	139.4	139.2	139.0
115°	162.9	162.8	162.6	162.4	162.1	161.8	161.6
117.5°	184.7	184.5	184.2	184.0	183.7	183.4	183.2
120°	199.6	199.6	199.5	199.2	198.9	198.7	198.4
122.5°	214.5	214.2	214.0	213.8	213.7	213.4	213.2
125°	236.7	236.5	236.3	236.2	236.1	236.0	235.9
127.5°	258.4	258.1	257.8	257.4	257.2	256.9	256.6
130°	273.4	273.2	273.0	272.6	272.2	271.9	271.5
132.5°	287.6	287.2	286.9	286.6	286.2	286.0	285.7
135°	309.2	309.1	308.9	308.6	308.4	308.1	307.8
137.5°	329.6	329.6	329.3	329.0	328.6	328.2	327.9
140°	343.4	343.4	343.2	342.9	342.5	342.1	341.8
142.5°	355.9	356.0	355.8	355.4	355.1	354.7	354.4
145°	374.8	374.9	374.7	374.3	374.0	373.6	373.3
147.5°	391.5	391.6	391.6	391.2	390.8	390.5	390.2
150°	402.0	402.3	402.3	402.0	401.7	401.4	401.2
152.5°	412.5	412.9	412.9	412.5	412.1	411.9	411.5
155°	426.0	426.4	426.5	426.2	426.0	425.7	425.4
157.5°	438.4	439.0	439.1	438.6	438.2	437.8	437.4
160°	445.6	446.1	446.2	445.9	445.5	445.1	444.8
162.5°	452.3	452.9	453.0	452.5	452.1	451.7	451.3
165°	460.8	461.5	461.5	461.1	460.7	460.2	459.8
167.5°	467.9	468.5	468.6	468.1	467.6	467.2	466.7
170°	471.7	472.3	472.4	471.9	471.4	470.8	470.3
172.5°	474.7	475.3	475.3	474.7	474.2	473.7	473.1
175°	477.8	478.4	478.5	478.0	477.4	476.9	476.4
177.5°	479.0	479.5	479.5	479.0	478.7	478.2	477.8
180°	478.8	478.8	478.8	478.8	478.8	478.8	478.8

(END OF REPORT)