

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: P331789-940

Luminaire Tested: **S122RDIW-S485D710U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331789-940  
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: S122RDIW-S485D710U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4186.6 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

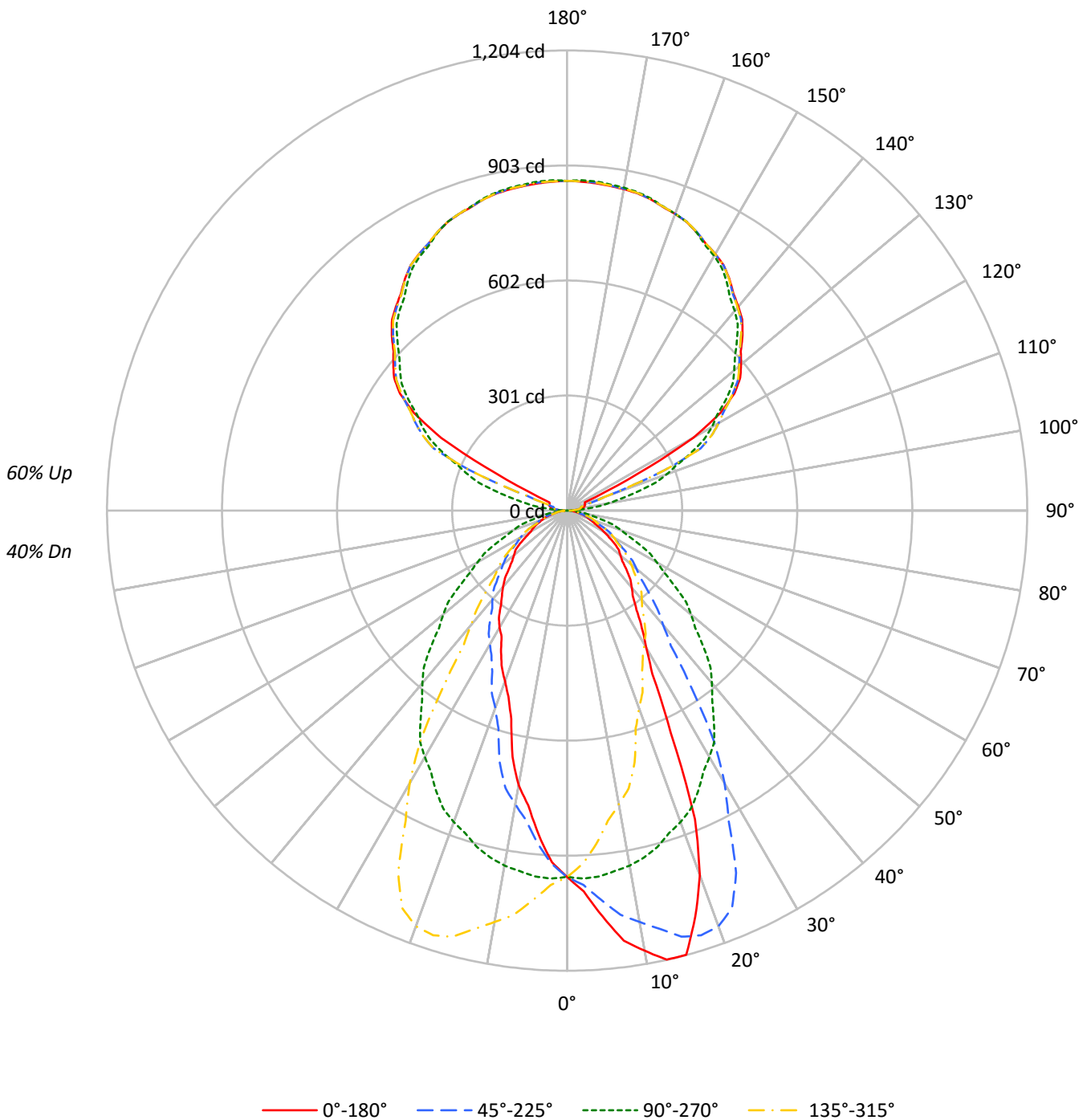
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	40	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	22	18
7	58	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

**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	2.2
10°-20°	253.1	6.0
20°-30°	326.2	7.8
30°-40°	310.0	7.4
40°-50°	265.6	6.3
50°-60°	202.2	4.8
60°-70°	127.8	3.1
70°-80°	63.8	1.5
80°-90°	18.7	0.4
90°-100°	28.8	0.7
100°-110°	105.5	2.5
110°-120°	282.1	6.7
120°-130°	465.6	11.1
130°-140°	495.2	11.8
140°-150°	460.3	11.0
150°-160°	370.1	8.8
160°-170°	238.5	5.7
170°-180°	82.1	2.0
0°-30°	670.2	16.0
0°-40°	980.2	23.4
0°-60°	1448.0	34.6
0°-90°	1658.4	39.6
90°-120°	416.4	9.9
90°-150°	1837.6	43.9
90°-180°	2528.0	60.4
0°-180°	4186.6	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°	17	1	17	1	17	8
95°	27	41	27	41	27	25
105°	47	190	47	190	47	49
115°	51	359	51	359	51	128
125°	534	508	534	508	534	462
135°	649	628	649	628	649	500
145°	740	728	740	728	740	463
155°	803	802	803	802	803	370
165°	843	845	843	845	843	238
175°	860	865	860	865	860	82
180°	863	863	863	863	863	



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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°	7.7	7.8	7.8	7.8	7.7	7.6	7.4	7.6	7.1	7.3	6.8
90°	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9	13.2	12.5	11.4
92.5°	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2	14.8	14.4	13.9
95°	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8	25.1	24.3	23.4
97.5°	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7	33.2	32.5	30.3
100°	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8	36.6	35.6	33.3
102.5°	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5	38.0	36.6	56.3
105°	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1	39.6	38.1	76.0
107.5°	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2	51.7	53.3	98.7
110°	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5	95.4	109.2	149.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3	225.0	275.5	285.4
115°	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7	320.9	385.1	381.7
117.5°	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6	411.1	426.6	424.2
120°	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9	459.2	457.5	455.0
122.5°	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0	488.0	487.1	484.3
125°	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4	528.4	527.4	524.9
127.5°	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8	565.3	563.9	562.0
130°	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5	589.0	587.5	585.9
132.5°	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5	612.2	610.9	609.4
135°	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4	645.0	643.6	642.4
137.5°	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9	675.6	674.2	672.8
140°	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7	695.4	694.2	692.6
142.5°	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9	713.8	712.7	710.9
145°	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4	739.5	738.5	736.1
147.5°	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7	762.0	761.2	758.8
150°	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3	775.5	774.7	772.5
152.5°	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8	788.0	787.2	785.1
155°	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7	804.9	804.1	802.4
157.5°	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9	818.9	818.0	816.8
160°	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1	827.3	826.5	825.6
162.5°	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9	834.9	834.0	833.3
165°	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3	844.4	843.4	842.9
167.5°	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2	852.2	851.2	850.9
170°	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2	856.2	855.2	855.0
172.5°	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1	859.2	858.2	857.9
175°	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4	862.5	861.5	861.2
177.5°	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8	863.0	862.2	862.1
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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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	6.6	6.4	5.9	5.8	5.8	6.9	7.8	7.1	6.6	6.3
90°	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6	2.1	3.7	5.2
92.5°	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6	12.5	12.3	12.2
95°	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6	36.0	31.4	26.8
97.5°	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5	67.6	54.8	41.8
100°	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5	91.5	72.5	53.5
102.5°	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5	139.5	135.4	131.3
105°	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8	193.9	198.1	202.2
107.5°	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5	245.9	249.3	252.6
110°	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5	279.5	282.4	285.3





TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5	311.1	313.7	316.2
115°	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9	361.3	363.6	366.0
117.5°	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0	406.6	409.3	411.9
120°	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9	439.1	441.1	443.2
122.5°	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9	467.2	469.3	471.5
125°	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5	509.3	511.1	512.9
127.5°	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1	548.0	550.1	552.1
130°	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5	572.7	575.0	577.2
132.5°	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6	597.4	599.3	601.2
135°	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0	630.2	632.4	634.6
137.5°	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8	662.4	664.0	665.5
140°	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3	683.4	684.5	685.6
142.5°	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3	701.2	702.3	703.3
145°	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5	728.3	728.3	728.1
147.5°	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0	752.6	752.1	751.5
150°	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1	768.1	767.1	766.2
152.5°	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6	781.5	780.4	779.3
155°	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2	800.9	799.7	798.4
157.5°	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5	816.5	815.4	814.3
160°	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	825.6	824.8	824.0
162.5°	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5	833.7	832.9	832.0
165°	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3	844.4	843.6	842.8
167.5°	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2	852.4	851.6	850.7
170°	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7	856.8	856.0	855.2
172.5°	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7	859.9	859.1	858.2
175°	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6	863.6	862.6	861.7
177.5°	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2	864.4	863.6	862.9
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**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°	6.4	6.4	6.1	6.3	6.5	6.5	6.6	6.5	6.6	6.8	6.6
90°	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9	14.5	15.2	15.8
92.5°	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.2
95°	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8	26.4	27.1	27.4
97.5°	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7	34.2	34.8	35.1
100°	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8	38.9	40.0	40.8
102.5°	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5	40.9	42.4	43.2
105°	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1	42.6	44.1	45.2
107.5°	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2	48.7	47.1	46.6
110°	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5	67.6	53.8	47.1



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3	123.8	73.1	48.1
115°	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7	192.4	128.2	91.1
117.5°	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6	380.0	364.4	340.3
120°	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9	462.5	464.2	455.7
122.5°	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0	490.0	491.1	489.7
125°	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4	530.4	531.4	532.1
127.5°	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8	568.2	569.6	570.3
130°	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5	592.0	593.5	594.2
132.5°	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5	614.8	616.1	616.7
135°	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4	647.7	649.2	649.7
137.5°	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9	678.2	679.7	680.1
140°	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7	697.9	699.2	699.5
142.5°	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9	716.0	717.2	717.4
145°	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4	741.4	742.3	742.5
147.5°	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7	763.4	764.1	764.2
150°	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3	777.2	778.0	778.1
152.5°	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8	789.7	790.5	790.5
155°	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7	806.6	807.4	807.2
157.5°	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9	820.8	821.8	821.7
160°	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1	829.0	829.8	829.7
162.5°	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9	836.8	837.8	837.7
165°	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3	846.2	847.2	847.2
167.5°	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2	854.2	855.1	855.0
170°	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2	858.1	859.1	859.0
172.5°	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1	861.1	862.1	861.9
175°	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4	864.3	865.3	865.1
177.5°	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8	864.5	865.3	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**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°	6.7	6.4	6.8	6.6	6.8	6.4	6.7	6.6	6.8	6.6	6.5
90°	16.1	16.3	16.6	16.9	16.6	16.3	16.1	15.8	15.2	14.5	13.9
92.5°	16.3	16.5	16.7	16.9	16.7	16.5	16.3	16.2	16.0	15.6	15.2
95°	27.3	27.1	27.0	26.8	27.0	27.1	27.3	27.4	27.1	26.4	25.8
97.5°	35.3	35.5	35.7	35.8	35.7	35.5	35.3	35.1	34.8	34.2	33.7
100°	41.0	41.3	41.6	41.8	41.6	41.3	41.0	40.8	40.0	38.9	37.8
102.5°	43.7	44.1	44.4	44.9	44.4	44.1	43.7	43.2	42.4	40.9	39.5
105°	45.7	46.4	46.9	47.4	46.9	46.4	45.7	45.2	44.1	42.6	41.1
107.5°	47.2	47.7	48.2	48.8	48.2	47.7	47.2	46.6	47.1	48.7	50.2
110°	47.6	48.2	48.8	49.3	48.8	48.2	47.6	47.1	53.8	67.6	81.5



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	48.5	49.0	49.4	49.8	49.4	49.0	48.5	48.1	73.1	123.8	174.3
115°	81.1	71.2	61.2	51.2	61.2	71.2	81.1	91.1	128.2	192.4	256.7
117.5°	307.5	274.6	241.8	209.0	241.8	274.6	307.5	340.3	364.4	380.0	395.6
120°	436.9	418.2	399.5	380.8	399.5	418.2	436.9	455.7	464.2	462.5	460.9
122.5°	486.1	482.4	478.8	475.2	478.8	482.4	486.1	489.7	491.1	490.0	489.0
125°	532.4	532.9	533.3	533.7	533.3	532.9	532.4	532.1	531.4	530.4	529.4
127.5°	570.4	570.5	570.6	570.7	570.6	570.5	570.4	570.3	569.6	568.2	566.8
130°	594.1	594.0	593.8	593.7	593.8	594.0	594.1	594.2	593.5	592.0	590.5
132.5°	616.5	616.4	616.3	616.2	616.3	616.4	616.5	616.7	616.1	614.8	613.5
135°	649.4	649.2	648.9	648.6	648.9	649.2	649.4	649.7	649.2	647.7	646.4
137.5°	679.6	679.1	678.7	678.1	678.7	679.1	679.6	680.1	679.7	678.2	676.9
140°	698.7	698.0	697.3	696.7	697.3	698.0	698.7	699.5	699.2	697.9	696.7
142.5°	716.8	716.0	715.3	714.6	715.3	716.0	716.8	717.4	717.2	716.0	714.9
145°	741.8	741.1	740.4	739.8	740.4	741.1	741.8	742.5	742.3	741.4	740.4
147.5°	763.6	763.0	762.4	761.8	762.4	763.0	763.6	764.2	764.1	763.4	762.7
150°	777.4	776.7	776.0	775.3	776.0	776.7	777.4	778.1	778.0	777.2	776.3
152.5°	789.5	788.6	787.7	786.8	787.7	788.6	789.5	790.5	790.5	789.7	788.8
155°	806.1	805.0	803.9	802.8	803.9	805.0	806.1	807.2	807.4	806.6	805.7
157.5°	820.6	819.6	818.5	817.3	818.5	819.6	820.6	821.7	821.8	820.8	819.9
160°	828.8	827.8	826.9	825.9	826.9	827.8	828.8	829.7	829.8	829.0	828.1
162.5°	836.4	835.3	834.0	832.9	834.0	835.3	836.4	837.7	837.8	836.8	835.9
165°	846.2	845.3	844.4	843.4	844.4	845.3	846.2	847.2	847.2	846.2	845.3
167.5°	853.7	852.5	851.2	850.0	851.2	852.5	853.7	855.0	855.1	854.2	853.2
170°	857.7	856.5	855.2	854.0	855.2	856.5	857.7	859.0	859.1	858.1	857.2
172.5°	860.7	859.4	858.2	856.9	858.2	859.4	860.7	861.9	862.1	861.1	860.1
175°	863.7	862.4	860.9	859.6	860.9	862.4	863.7	865.1	865.3	864.3	863.4
177.5°	864.2	863.2	862.2	861.2	862.2	863.2	864.2	865.2	865.3	864.5	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**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°	6.6	6.5	6.5	6.3	6.1	6.4	6.4	6.3	6.6	7.1	7.8
90°	13.2	12.5	11.4	10.3	9.2	8.0	6.7	5.2	3.7	2.1	0.6
92.5°	14.8	14.4	13.9	13.4	12.8	12.3	12.0	12.2	12.3	12.5	12.6
95°	25.1	24.3	23.4	22.4	21.4	20.4	22.3	26.8	31.4	36.0	40.6
97.5°	33.2	32.5	30.3	28.1	25.9	23.6	28.9	41.8	54.8	67.6	80.5
100°	36.6	35.6	33.3	30.9	28.5	26.1	34.5	53.5	72.5	91.5	110.5
102.5°	38.0	36.6	56.3	76.1	95.8	115.5	127.3	131.3	135.4	139.5	143.5
105°	39.6	38.1	76.0	113.8	151.7	189.6	206.4	202.2	198.1	193.9	189.8
107.5°	51.7	53.3	98.7	144.2	189.6	235.0	256.0	252.6	249.3	245.9	242.5
110°	95.4	109.2	149.4	189.4	229.5	269.6	288.2	285.3	282.4	279.5	276.5



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	225.0	275.5	285.4	295.3	305.2	315.1	318.8	316.2	313.7	311.1	308.5
115°	320.9	385.1	381.7	378.3	374.8	371.3	368.4	366.0	363.6	361.3	358.9
117.5°	411.1	426.6	424.2	421.9	419.5	417.1	414.6	411.9	409.3	406.6	404.0
120°	459.2	457.5	455.0	452.5	450.0	447.5	445.3	443.2	441.1	439.1	436.9
122.5°	488.0	487.1	484.3	481.6	478.8	476.2	473.7	471.5	469.3	467.2	464.9
125°	528.4	527.4	524.9	522.2	519.6	516.9	514.7	512.9	511.1	509.3	507.5
127.5°	565.3	563.9	562.0	560.0	558.0	556.1	554.1	552.1	550.1	548.0	546.1
130°	589.0	587.5	585.9	584.3	582.8	581.3	579.4	577.2	575.0	572.7	570.5
132.5°	612.2	610.9	609.4	607.8	606.3	604.8	603.1	601.2	599.3	597.4	595.6
135°	645.0	643.6	642.4	641.1	639.9	638.6	636.9	634.6	632.4	630.2	628.0
137.5°	675.6	674.2	672.8	671.4	669.9	668.5	667.0	665.5	664.0	662.4	660.8
140°	695.4	694.2	692.6	691.1	689.6	688.0	686.7	685.6	684.5	683.4	682.3
142.5°	713.8	712.7	710.9	709.2	707.4	705.6	704.3	703.3	702.3	701.2	700.3
145°	739.5	738.5	736.1	733.8	731.4	729.1	727.9	728.1	728.3	728.3	728.5
147.5°	762.0	761.2	758.8	756.5	754.2	751.9	751.0	751.5	752.1	752.6	753.0
150°	775.5	774.7	772.5	770.3	768.0	765.8	765.2	766.2	767.1	768.1	769.1
152.5°	788.0	787.2	785.1	782.9	780.9	778.7	778.2	779.3	780.4	781.5	782.6
155°	804.9	804.1	802.4	800.7	799.1	797.4	797.2	798.4	799.7	800.9	802.2
157.5°	818.9	818.0	816.8	815.6	814.5	813.3	813.3	814.3	815.4	816.5	817.5
160°	827.3	826.5	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5
162.5°	834.9	834.0	833.3	832.6	831.8	831.1	831.2	832.0	832.9	833.7	834.5
165°	844.4	843.4	842.9	842.5	842.1	841.7	841.9	842.8	843.6	844.4	845.3
167.5°	852.2	851.2	850.9	850.4	850.1	849.7	849.9	850.7	851.6	852.4	853.2
170°	856.2	855.2	855.0	854.7	854.3	854.1	854.3	855.2	856.0	856.8	857.7
172.5°	859.2	858.2	857.9	857.6	857.4	857.1	857.4	858.2	859.1	859.9	860.7
175°	862.5	861.5	861.2	860.9	860.6	860.3	860.7	861.7	862.6	863.6	864.6
177.5°	863.0	862.2	862.1	862.0	861.8	861.7	862.1	862.9	863.6	864.4	865.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**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°	6.9	5.8	5.8	5.9	6.4	6.6	6.6	6.8	7.3	7.1	7.6
90°	2.1	3.7	5.2	6.7	8.0	9.2	10.3	11.4	12.5	13.2	13.9
92.5°	12.5	12.3	12.2	12.0	12.3	12.8	13.4	13.9	14.4	14.8	15.2
95°	36.0	31.4	26.8	22.3	20.4	21.4	22.4	23.4	24.3	25.1	25.8
97.5°	67.6	54.8	41.8	28.9	23.6	25.9	28.1	30.3	32.5	33.2	33.7
100°	91.5	72.5	53.5	34.5	26.1	28.5	30.9	33.3	35.6	36.6	37.8
102.5°	139.5	135.4	131.3	127.3	115.5	95.8	76.1	56.3	36.6	38.0	39.5
105°	193.9	198.1	202.2	206.4	189.6	151.7	113.8	76.0	38.1	39.6	41.1
107.5°	245.9	249.3	252.6	256.0	235.0	189.6	144.2	98.7	53.3	51.7	50.2
110°	279.5	282.4	285.3	288.2	269.6	229.5	189.4	149.4	109.2	95.4	81.5





TEST NUMBER: P331789-940

CATALOG NUMBER: S122RDIW-S485D710U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	311.1	313.7	316.2	318.8	315.1	305.2	295.3	285.4	275.5	225.0	174.3
115°	361.3	363.6	366.0	368.4	371.3	374.8	378.3	381.7	385.1	320.9	256.7
117.5°	406.6	409.3	411.9	414.6	417.1	419.5	421.9	424.2	426.6	411.1	395.6
120°	439.1	441.1	443.2	445.3	447.5	450.0	452.5	455.0	457.5	459.2	460.9
122.5°	467.2	469.3	471.5	473.7	476.2	478.8	481.6	484.3	487.1	488.0	489.0
125°	509.3	511.1	512.9	514.7	516.9	519.6	522.2	524.9	527.4	528.4	529.4
127.5°	548.0	550.1	552.1	554.1	556.1	558.0	560.0	562.0	563.9	565.3	566.8
130°	572.7	575.0	577.2	579.4	581.3	582.8	584.3	585.9	587.5	589.0	590.5
132.5°	597.4	599.3	601.2	603.1	604.8	606.3	607.8	609.4	610.9	612.2	613.5
135°	630.2	632.4	634.6	636.9	638.6	639.9	641.1	642.4	643.6	645.0	646.4
137.5°	662.4	664.0	665.5	667.0	668.5	669.9	671.4	672.8	674.2	675.6	676.9
140°	683.4	684.5	685.6	686.7	688.0	689.6	691.1	692.6	694.2	695.4	696.7
142.5°	701.2	702.3	703.3	704.3	705.6	707.4	709.2	710.9	712.7	713.8	714.9
145°	728.3	728.3	728.1	727.9	729.1	731.4	733.8	736.1	738.5	739.5	740.4
147.5°	752.6	752.1	751.5	751.0	751.9	754.2	756.5	758.8	761.2	762.0	762.7
150°	768.1	767.1	766.2	765.2	765.8	768.0	770.3	772.5	774.7	775.5	776.3
152.5°	781.5	780.4	779.3	778.2	778.7	780.9	782.9	785.1	787.2	788.0	788.8
155°	800.9	799.7	798.4	797.2	797.4	799.1	800.7	802.4	804.1	804.9	805.7
157.5°	816.5	815.4	814.3	813.3	813.3	814.5	815.6	816.8	818.0	818.9	819.9
160°	825.6	824.8	824.0	823.1	823.1	824.0	824.8	825.6	826.5	827.3	828.1
162.5°	833.7	832.9	832.0	831.2	831.1	831.8	832.6	833.3	834.0	834.9	835.9
165°	844.4	843.6	842.8	841.9	841.7	842.1	842.5	842.9	843.4	844.4	845.3
167.5°	852.4	851.6	850.7	849.9	849.7	850.1	850.4	850.9	851.2	852.2	853.2
170°	856.8	856.0	855.2	854.3	854.1	854.3	854.7	855.0	855.2	856.2	857.2
172.5°	859.9	859.1	858.2	857.4	857.1	857.4	857.6	857.9	858.2	859.2	860.1
175°	863.6	862.6	861.7	860.7	860.3	860.6	860.9	861.2	861.5	862.5	863.4
177.5°	864.4	863.6	862.9	862.1	861.7	861.8	862.0	862.1	862.2	863.0	863.8
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7



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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°	7.4	7.6	7.7	7.8	7.8	7.8	7.7
90°	14.5	15.2	15.8	16.1	16.3	16.6	16.9
92.5°	15.6	16.0	16.2	16.3	16.5	16.7	16.9
95°	26.4	27.1	27.4	27.3	27.1	27.0	26.8
97.5°	34.2	34.8	35.1	35.3	35.5	35.7	35.8
100°	38.9	40.0	40.8	41.0	41.3	41.6	41.8
102.5°	40.9	42.4	43.2	43.7	44.1	44.4	44.9
105°	42.6	44.1	45.2	45.7	46.4	46.9	47.4
107.5°	48.7	47.1	46.6	47.2	47.7	48.2	48.8
110°	67.6	53.8	47.1	47.6	48.2	48.8	49.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.8	73.1	48.1	48.5	49.0	49.4	49.8
115°	192.4	128.2	91.1	81.1	71.2	61.2	51.2
117.5°	380.0	364.4	340.3	307.5	274.6	241.8	209.0
120°	462.5	464.2	455.7	436.9	418.2	399.5	380.8
122.5°	490.0	491.1	489.7	486.1	482.4	478.8	475.2
125°	530.4	531.4	532.1	532.4	532.9	533.3	533.7
127.5°	568.2	569.6	570.3	570.4	570.5	570.6	570.7
130°	592.0	593.5	594.2	594.1	594.0	593.8	593.7
132.5°	614.8	616.1	616.7	616.5	616.4	616.3	616.2
135°	647.7	649.2	649.7	649.4	649.2	648.9	648.6
137.5°	678.2	679.7	680.1	679.6	679.1	678.7	678.1
140°	697.9	699.2	699.5	698.7	698.0	697.3	696.7
142.5°	716.0	717.2	717.4	716.8	716.0	715.3	714.6
145°	741.4	742.3	742.5	741.8	741.1	740.4	739.8
147.5°	763.4	764.1	764.2	763.6	763.0	762.4	761.8
150°	777.2	778.0	778.1	777.4	776.7	776.0	775.3
152.5°	789.7	790.5	790.5	789.5	788.6	787.7	786.8
155°	806.6	807.4	807.2	806.1	805.0	803.9	802.8
157.5°	820.8	821.8	821.7	820.6	819.6	818.5	817.3
160°	829.0	829.8	829.7	828.8	827.8	826.9	825.9
162.5°	836.8	837.8	837.7	836.4	835.3	834.0	832.9
165°	846.2	847.2	847.2	846.2	845.3	844.4	843.4
167.5°	854.2	855.1	855.0	853.7	852.5	851.2	850.0
170°	858.1	859.1	859.0	857.7	856.5	855.2	854.0
172.5°	861.1	862.1	861.9	860.7	859.4	858.2	856.9
175°	864.3	865.3	865.1	863.7	862.4	860.9	859.6
177.5°	864.5	865.3	865.2	864.2	863.2	862.2	861.2
180°	862.7	862.7	862.7	862.7	862.7	862.7	862.7

(END OF REPORT)