

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: P331790-830

Luminaire Tested: **S122RDIW-S485D710U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331790-830
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-S485D710U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4071.5 lumens
Efficiency: N/A
Efficacy: 108.3 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: General Diffuse

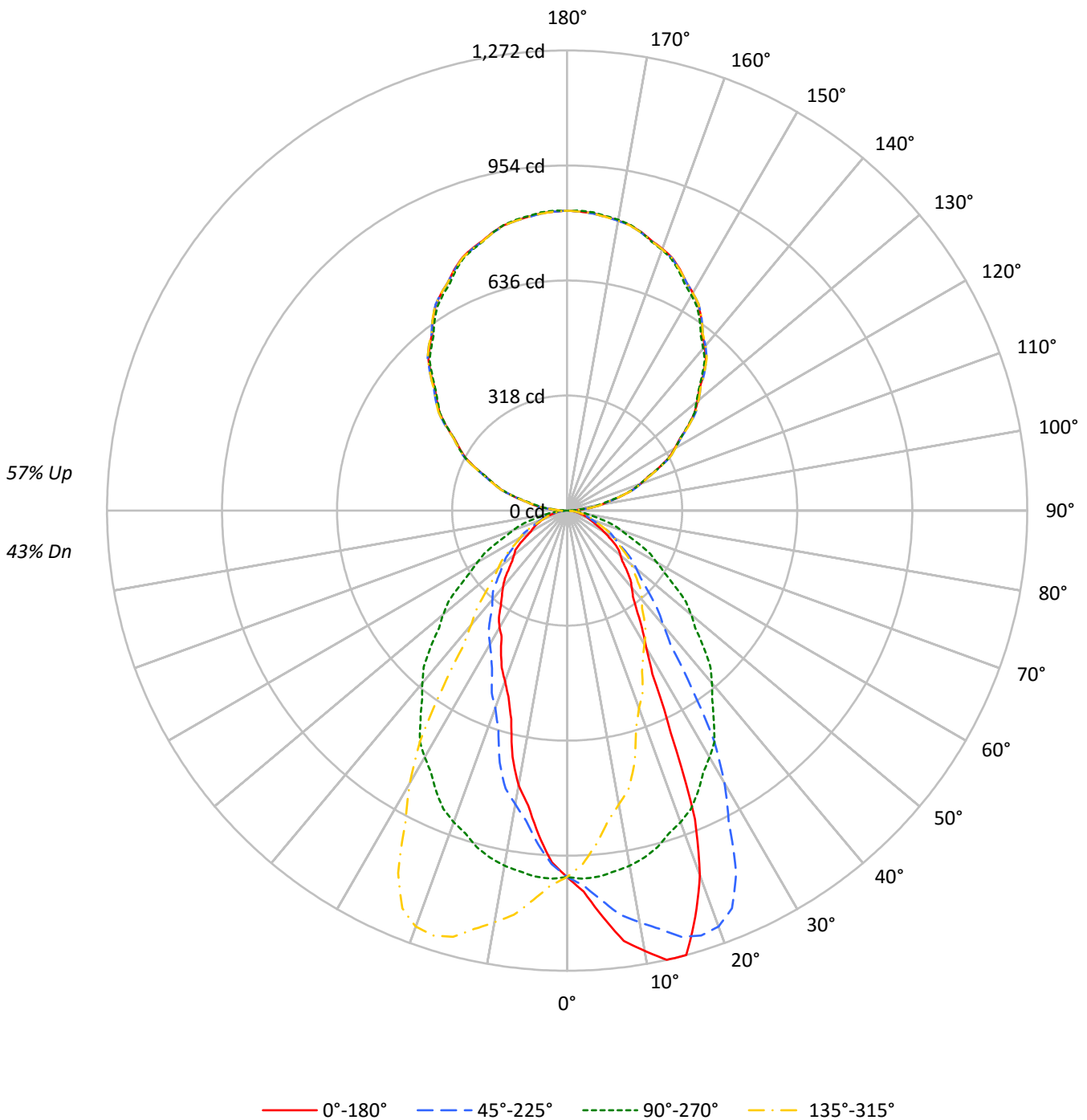
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	55	45	44	43	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	40	39	37	33
3	81	73	66	60	74	67	61	56	56	52	48	46	43	40	36	34	33	28
4	75	65	57	52	68	60	53	48	50	45	42	41	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	36	38	34	31	30	28	26	22
6	64	52	45	39	58	48	42	37	41	36	32	34	30	28	28	25	23	20
7	59	48	40	35	54	44	37	33	38	32	29	31	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16356	16356	16356	16356
5°	18266	16459	14593	16459
10°	20266	16342	12650	16342
15°	21264	16104	9967	16104
20°	18433	15747	8624	15747
25°	12089	15262	7701	15262
30°	8138	14673	6969	14673
35°	6591	13931	6286	13931
40°	5861	13122	5817	13122
45°	5304	12177	5190	12177
50°	4828	11235	4808	11235
55°	4538	10196	4479	10196
60°	3794	9242	3749	9242
65°	3202	8390	3629	8390
70°	2960	7492	3423	7492
75°	2770	6519	3163	6519
80°	2548	5365	2817	5365
85°	2334	4242	2482	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.4
10°-20°	267.6	6.6
20°-30°	344.8	8.5
30°-40°	327.7	8.0
40°-50°	280.7	6.9
50°-60°	213.8	5.3
60°-70°	135.1	3.3
70°-80°	67.5	1.7
80°-90°	20.9	0.5
90°-100°	52.5	1.3
100°-110°	163.1	4.0
110°-120°	278.8	6.8
120°-130°	366.6	9.0
130°-140°	411.5	10.1
140°-150°	403.5	9.9
150°-160°	338.4	8.3
160°-170°	224.5	5.5
170°-180°	78.5	1.9
0°-30°	708.4	17.4
0°-40°	1036.1	25.4
0°-60°	1530.5	37.6
0°-90°	1754.0	43.1
90°-120°	494.4	12.1
90°-150°	1676.1	41.2
90°-180°	2317.0	56.9
0°-180°	4071.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1013	1013	1013	1013	1013	
5°	1127	1016	900	1016	1127	111
15°	1272	963	596	963	1272	343
25°	679	857	432	857	679	322
35°	334	707	319	707	334	214
45°	232	533	227	533	232	180
55°	161	362	159	362	161	141
65°	84	220	95	220	84	85
75°	44	104	51	104	44	47
85°	13	23	13	23	13	14
90°	24	1	24	1	24	11
95°	43	36	43	36	43	48
105°	155	150	155	150	155	163
115°	280	280	280	280	280	276
125°	408	407	408	407	408	364
135°	533	527	533	527	533	410
145°	646	639	646	639	646	404
155°	736	731	736	731	736	339
165°	796	795	796	795	796	224
175°	825	827	825	827	825	78
180°	829	829	829	829	829	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1054.1	1055.0	1055.8	1053.9	1053.9	1052.2	1048.5	1045.7	1037.7	1036.6	1036.6
5°	1127.0	1126.3	1127.8	1123.1	1116.8	1115.4	1108.7	1099.9	1090.8	1080.5	1078.5
7.5°	1199.6	1198.5	1195.7	1194.9	1190.1	1179.4	1168.7	1157.2	1142.0	1127.1	1119.6
10°	1236.1	1247.7	1240.8	1228.4	1230.9	1214.4	1205.5	1190.4	1177.7	1155.6	1150.7
12.5°	1272.1	1276.8	1274.5	1267.5	1264.4	1252.9	1241.0	1227.9	1204.5	1184.6	1167.2
15°	1272.1	1278.7	1280.5	1278.4	1280.2	1279.4	1273.1	1262.2	1241.8	1219.9	1201.0
17.5°	1178.2	1182.8	1194.3	1202.1	1212.0	1232.8	1243.1	1247.2	1244.1	1231.6	1218.2
20°	1072.8	1065.1	1097.5	1114.0	1128.1	1163.3	1193.5	1205.1	1223.8	1223.5	1219.9
22.5°	923.6	925.4	956.1	975.7	1016.9	1052.1	1086.6	1130.3	1166.4	1190.2	1204.2
25°	678.6	692.0	722.6	749.3	795.1	860.6	920.1	989.1	1054.1	1105.6	1154.5
27.5°	509.6	510.7	534.9	559.7	586.8	640.5	715.4	797.8	890.6	967.1	1055.3
30°	436.5	434.3	444.6	459.7	483.0	524.4	580.8	661.8	754.3	869.8	972.5
32.5°	384.7	384.7	392.5	403.7	422.9	450.9	489.6	555.3	642.8	756.3	876.8
35°	334.4	334.0	339.7	347.8	355.8	373.8	400.2	434.7	494.9	600.9	724.1
37.5°	298.3	299.9	302.7	307.7	316.6	326.6	342.5	365.6	408.5	471.2	574.7
40°	278.1	278.8	282.7	286.9	292.2	299.9	312.9	331.6	362.9	412.8	488.5
42.5°	259.5	260.1	263.0	266.8	271.0	278.8	289.5	305.7	331.1	370.0	432.5
45°	232.3	232.3	234.8	236.5	241.1	248.2	256.9	270.3	287.9	316.8	358.4
47.5°	206.8	206.9	208.5	211.5	214.4	219.9	228.6	239.5	252.3	274.7	310.1
50°	192.2	192.6	193.6	196.0	197.8	202.7	209.4	219.0	232.3	249.6	279.1
52.5°	180.3	180.1	181.4	182.6	183.7	187.3	192.3	200.7	212.6	227.6	252.1
55°	161.2	159.8	161.9	163.6	164.8	166.2	168.9	174.3	184.5	197.1	215.4
57.5°	137.2	136.7	138.2	139.8	143.1	146.9	149.3	152.7	158.0	167.0	185.2
60°	117.5	117.5	120.7	121.8	125.6	130.5	135.5	138.4	143.6	149.6	163.0
62.5°	100.1	100.4	101.9	102.9	105.1	111.1	118.1	124.2	129.2	135.0	143.8
65°	83.8	84.5	84.5	85.2	86.6	88.0	90.8	95.8	104.5	112.6	119.3
67.5°	71.1	71.4	71.5	72.2	72.6	74.1	75.2	77.5	79.5	87.2	95.5
70°	62.7	63.7	63.3	64.1	64.4	65.1	66.5	67.6	70.8	72.5	77.5
72.5°	54.8	55.5	55.5	55.9	56.8	56.9	58.1	59.1	61.2	62.7	65.3
75°	44.4	44.0	44.4	45.1	45.4	45.7	45.7	47.1	48.3	49.7	51.4
77.5°	34.2	34.6	34.5	34.6	34.6	35.3	35.2	35.8	36.9	37.6	38.5
80°	27.4	27.8	27.4	27.8	28.2	28.5	28.2	28.5	29.6	30.3	30.3
82.5°	21.3	21.3	21.6	21.6	21.7	21.8	22.2	22.3	23.1	22.9	23.2
85°	12.6	12.3	12.3	12.3	12.6	13.0	12.6	12.6	13.0	13.0	13.0
87.5°	9.2	9.5	9.5	9.4	9.4	9.4	9.5	9.8	9.6	10.0	9.0
90°	23.8	23.7	23.5	23.3	23.2	23.3	23.6	23.8	24.1	24.5	21.0
92.5°	22.6	22.6	22.6	22.5	22.5	22.5	22.4	22.3	22.3	22.2	21.4
95°	43.4	43.6	44.0	44.3	44.6	44.8	44.8	44.8	44.8	44.8	44.5
97.5°	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	74.6
100°	95.9	96.0	96.1	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.0
102.5°	119.3	119.5	119.6	119.8	120.0	120.0	119.8	119.7	119.6	119.4	118.9
105°	155.2	155.2	155.2	155.2	155.2	155.1	154.8	154.5	154.2	153.9	153.5
107.5°	189.2	189.8	190.6	191.2	192.0	192.3	192.2	192.0	191.9	191.8	191.8
110°	215.5	215.8	216.3	216.8	217.3	217.5	217.5	217.5	217.5	217.5	217.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	240.6	240.9	241.3	241.7	242.0	242.3	242.7	243.1	243.5	243.8	243.9
115°	279.7	280.2	280.7	281.2	281.6	281.9	282.1	282.3	282.4	282.6	282.9
117.5°	317.1	317.5	318.0	318.5	319.0	319.4	319.8	320.2	320.6	320.9	321.8
120°	343.4	343.8	344.3	344.8	345.3	345.5	345.5	345.5	345.5	345.5	346.8
122.5°	369.2	369.5	369.9	370.1	370.5	370.9	371.3	371.6	372.0	372.4	373.2
125°	408.5	408.6	408.8	409.0	409.1	409.3	409.8	410.3	410.8	411.2	411.7
127.5°	444.3	444.8	445.3	445.7	446.3	446.8	447.3	447.9	448.5	449.0	449.6
130°	470.0	470.6	471.3	471.8	472.5	473.0	473.3	473.6	473.9	474.2	474.5
132.5°	494.6	495.1	495.6	496.2	496.6	497.2	497.9	498.6	499.3	499.9	499.9
135°	532.9	533.4	533.9	534.3	534.8	535.2	535.3	535.5	535.6	535.7	535.5
137.5°	567.6	568.3	568.9	569.5	570.1	570.5	570.6	570.7	570.9	571.0	570.6
140°	591.7	592.3	593.0	593.6	594.2	594.5	594.5	594.5	594.5	594.5	593.7
142.5°	613.5	614.2	614.7	615.4	616.0	616.2	616.1	616.0	615.9	615.8	615.2
145°	646.3	646.9	647.5	648.1	648.8	648.9	648.8	648.7	648.5	648.4	647.4
147.5°	675.5	676.1	676.7	677.3	677.9	678.0	677.6	677.3	676.9	676.7	676.0
150°	694.6	695.0	695.4	695.9	696.4	696.4	695.9	695.4	695.0	694.6	693.9
152.5°	712.5	713.0	713.6	714.2	714.8	714.8	714.2	713.6	713.0	712.5	711.7
155°	736.5	737.0	737.4	737.9	738.4	738.2	737.4	736.6	735.8	735.1	734.6
157.5°	757.1	757.9	758.7	759.4	760.2	760.0	758.9	757.9	756.9	755.8	755.5
160°	770.1	770.7	771.3	771.9	772.5	772.4	771.5	770.5	769.6	768.6	768.5
162.5°	781.3	782.0	782.8	783.4	784.2	784.1	783.1	781.9	780.9	779.9	779.7
165°	796.0	796.7	797.5	798.2	799.1	798.9	797.8	796.7	795.6	794.6	794.6
167.5°	807.9	808.8	809.5	810.4	811.2	811.1	809.9	808.9	807.8	806.7	806.7
170°	814.1	815.0	816.0	816.9	817.8	817.7	816.7	815.6	814.5	813.4	813.6
172.5°	819.2	820.1	821.0	822.0	822.8	822.8	821.7	820.7	819.5	818.4	818.6
175°	824.6	825.6	826.5	827.4	828.3	828.3	827.2	826.0	825.0	823.9	824.3
177.5°	827.1	827.8	828.6	829.3	830.1	830.1	829.3	828.6	827.8	827.1	827.4
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1037.2	1035.0	1033.0	1027.9	1025.4	1019.7	1018.9	1018.6	1011.3	1004.3	1002.3
5°	1072.8	1067.2	1058.8	1048.9	1038.7	1028.1	1021.1	1015.5	1001.4	988.0	980.2
7.5°	1108.7	1096.6	1082.0	1063.4	1047.8	1030.4	1017.5	1005.8	985.8	966.7	953.8
10°	1135.5	1115.8	1096.5	1070.7	1050.7	1031.0	1012.7	996.8	974.3	949.0	930.9
12.5°	1152.1	1130.4	1103.7	1078.6	1052.6	1027.6	1003.1	982.7	956.3	930.1	908.7
15°	1174.6	1151.3	1119.0	1083.1	1049.6	1016.9	988.7	963.4	928.9	897.6	871.5
17.5°	1193.0	1160.9	1126.1	1084.7	1045.9	1004.4	968.1	935.7	897.3	859.5	828.9
20°	1198.8	1167.2	1127.0	1085.5	1039.7	990.8	951.8	916.5	875.3	834.2	799.0
22.5°	1195.1	1170.5	1125.9	1076.2	1029.4	978.2	934.1	893.2	847.5	805.5	764.7
25°	1170.4	1161.9	1119.6	1065.5	1011.9	952.4	901.4	856.7	804.6	759.6	715.2
27.5°	1112.4	1130.7	1104.5	1046.7	987.2	923.4	866.1	815.2	761.1	710.4	666.2
30°	1056.7	1098.5	1087.2	1033.8	967.2	904.6	840.2	787.0	729.3	677.2	633.6
32.5°	980.3	1049.5	1060.5	1015.8	947.0	878.1	810.6	757.7	697.5	642.5	600.0
35°	858.8	962.3	1009.8	981.3	912.3	838.1	768.4	706.8	646.2	592.0	549.8
37.5°	713.9	854.8	934.1	936.0	872.7	795.5	719.6	658.5	596.4	543.3	497.6
40°	619.8	772.6	875.7	898.6	845.1	761.7	684.9	622.6	562.1	510.0	457.6
42.5°	535.4	687.6	814.4	854.1	811.6	728.8	651.8	586.6	527.7	478.4	424.9
45°	432.9	566.0	705.7	776.8	753.3	676.5	595.2	533.3	478.0	435.4	384.0
47.5°	365.2	459.0	594.2	690.4	689.9	619.9	540.0	480.6	429.3	389.5	347.8
50°	326.6	408.3	522.7	631.8	640.9	582.2	506.1	447.3	399.5	357.6	324.1
52.5°	292.0	359.3	462.1	566.8	592.8	541.9	468.2	413.9	367.4	328.9	300.2
55°	246.8	298.8	377.0	474.9	514.3	478.3	412.8	362.2	324.5	292.2	267.5
57.5°	208.7	247.8	310.5	389.3	435.2	412.6	358.6	317.4	285.2	255.9	236.5
60°	184.8	216.8	269.9	335.8	386.4	370.6	324.5	286.2	258.7	233.4	215.1
62.5°	162.3	189.8	235.4	288.8	335.3	328.7	291.1	258.8	234.8	211.7	196.2
65°	130.5	150.6	186.2	228.1	265.4	268.5	241.5	219.6	198.1	179.8	166.2
67.5°	104.0	117.1	142.1	177.4	205.4	215.4	198.8	182.1	165.0	150.9	139.0
70°	87.7	98.2	116.5	145.1	170.7	181.3	171.7	158.7	143.9	132.3	122.2
72.5°	71.1	81.3	94.8	115.7	137.8	149.2	145.9	136.5	124.5	114.9	105.3
75°	53.5	56.6	65.8	79.9	97.2	107.0	109.4	104.5	95.0	87.7	82.0
77.5°	39.6	41.5	45.8	53.3	64.5	73.2	76.9	76.3	69.7	65.5	60.2
80°	31.7	32.7	34.9	38.0	46.5	55.2	57.7	57.7	53.2	51.4	46.1
82.5°	24.0	24.9	26.1	27.9	31.9	39.5	42.2	42.8	39.9	37.6	33.5
85°	13.8	13.4	14.0	15.2	15.8	17.9	22.1	22.9	22.1	19.3	18.3
87.5°	8.3	7.9	7.3	6.4	6.3	6.2	7.3	8.3	7.5	7.1	6.9
90°	17.6	14.2	10.8	8.2	6.3	4.4	2.5	0.7	2.5	4.4	6.3
92.5°	20.6	19.8	19.0	17.9	16.6	15.2	13.9	12.4	13.9	15.2	16.6
95°	44.1	43.8	43.5	42.6	41.0	39.5	37.9	36.4	37.9	39.5	41.0
97.5°	74.1	73.5	72.9	71.9	70.5	69.2	67.8	66.4	67.8	69.2	70.5
100°	95.6	95.1	94.6	93.8	92.6	91.3	90.1	88.8	90.1	91.3	92.6
102.5°	118.3	117.7	117.1	116.3	115.3	114.3	113.3	112.4	113.3	114.3	115.3
105°	153.3	153.0	152.6	152.2	151.7	151.3	150.8	150.3	150.8	151.3	151.7
107.5°	191.8	191.8	191.8	191.4	190.8	190.1	189.4	188.7	189.4	190.1	190.8
110°	217.5	217.5	217.5	217.1	216.1	215.2	214.2	213.3	214.2	215.2	216.1



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	244.0	244.2	244.3	243.9	243.0	242.0	241.1	240.2	241.1	242.0	243.0
115°	283.1	283.5	283.8	283.5	282.6	281.6	280.7	279.7	280.7	281.6	282.6
117.5°	322.6	323.5	324.3	324.1	322.9	321.7	320.5	319.2	320.5	321.7	322.9
120°	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5	346.8	348.0	349.2
122.5°	374.1	374.9	375.9	375.5	374.0	372.6	371.1	369.6	371.1	372.6	374.0
125°	412.2	412.6	413.1	412.6	411.2	409.8	408.5	407.1	408.5	409.8	411.2
127.5°	450.2	450.7	451.3	450.6	448.8	447.1	445.4	443.6	445.4	447.1	448.8
130°	474.9	475.1	475.4	474.6	472.6	470.5	468.5	466.5	468.5	470.5	472.6
132.5°	499.8	499.7	499.7	498.8	497.2	495.6	493.9	492.3	493.9	495.6	497.2
135°	535.2	534.8	534.5	533.5	531.8	530.1	528.4	526.7	528.4	530.1	531.8
137.5°	570.2	569.8	569.4	568.4	567.1	565.7	564.3	562.9	564.3	565.7	567.1
140°	593.0	592.2	591.4	590.3	588.9	587.5	586.1	584.8	586.1	587.5	588.9
142.5°	614.7	614.2	613.7	612.7	611.3	609.9	608.5	607.1	608.5	609.9	611.3
145°	646.5	645.5	644.6	643.7	642.5	641.4	640.4	639.2	640.4	641.4	642.5
147.5°	675.3	674.8	674.1	673.2	671.8	670.5	669.2	668.0	669.2	670.5	671.8
150°	693.2	692.7	692.0	691.3	690.3	689.4	688.4	687.5	688.4	689.4	690.3
152.5°	711.0	710.2	709.5	708.6	707.7	706.7	705.8	704.8	705.8	706.7	707.7
155°	734.1	733.7	733.2	732.7	732.3	731.8	731.3	730.8	731.3	731.8	732.3
157.5°	755.3	755.0	754.7	754.4	754.0	753.8	753.5	753.1	753.5	753.8	754.0
160°	768.4	768.2	768.1	767.8	767.5	767.1	766.9	766.6	766.9	767.1	767.5
162.5°	779.6	779.4	779.2	779.1	779.0	779.0	778.9	778.8	778.9	779.0	779.0
165°	794.6	794.6	794.6	794.7	794.8	794.9	795.0	795.2	795.0	794.9	794.8
167.5°	806.7	806.8	806.8	807.1	807.6	808.0	808.5	809.0	808.5	808.0	807.6
170°	813.7	813.9	814.1	814.4	814.8	815.3	815.8	816.2	815.8	815.3	814.8
172.5°	818.8	818.9	819.1	819.4	819.8	820.3	820.8	821.2	820.8	820.3	819.8
175°	824.5	824.8	825.2	825.6	826.0	826.5	827.0	827.4	827.0	826.5	826.0
177.5°	827.6	827.8	828.1	828.4	828.8	829.2	829.5	829.9	829.5	829.2	828.8
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	998.6	996.6	993.0	987.4	984.0	978.1	974.1	976.4	976.9	976.4	975.8
5°	971.9	964.4	954.2	944.3	935.2	925.4	919.7	917.3	912.3	909.6	908.1
7.5°	939.3	926.6	912.2	895.0	880.4	865.2	857.3	853.5	843.4	837.9	833.1
10°	915.1	895.0	880.6	858.1	844.4	824.3	810.6	811.0	797.2	789.5	783.8
12.5°	888.4	866.4	842.4	822.1	803.0	786.9	770.3	763.6	749.0	741.6	726.4
15°	844.0	818.3	793.1	765.5	746.2	721.2	697.3	668.1	644.5	624.1	618.4
17.5°	795.6	763.8	738.4	706.2	673.0	630.9	603.2	586.3	572.0	561.3	553.3
20°	762.4	730.0	702.9	654.3	609.6	581.1	560.7	547.7	532.9	521.3	514.9
22.5°	727.5	693.7	656.8	602.5	567.7	544.8	526.6	511.6	501.6	492.6	486.8
25°	677.9	640.9	580.0	542.7	514.6	490.7	478.0	468.8	458.3	445.9	440.4
27.5°	625.6	566.8	523.0	495.3	468.4	452.9	441.5	427.8	418.4	412.8	407.0
30°	586.4	527.6	493.5	463.2	444.2	427.0	413.6	405.9	396.7	387.2	383.3
32.5°	542.7	495.8	463.1	437.9	418.6	403.9	393.3	380.8	374.2	368.3	360.2
35°	488.5	453.0	423.1	402.7	384.4	372.4	360.1	352.7	340.7	335.8	332.6
37.5°	442.6	411.8	389.5	368.0	353.5	340.3	332.7	320.9	315.8	308.9	302.2
40°	416.7	386.4	365.0	347.4	331.2	321.3	311.9	302.4	294.6	291.4	283.3
42.5°	390.3	365.6	344.1	324.9	314.1	303.6	291.6	284.6	276.5	271.5	266.5
45°	353.7	332.0	313.6	297.7	285.8	274.9	267.1	255.5	251.0	240.7	236.5
47.5°	321.6	301.3	283.9	268.8	257.1	250.1	238.7	229.6	222.3	216.0	210.7
50°	298.8	281.9	265.0	251.7	241.1	230.9	219.3	214.7	203.4	200.3	197.1
52.5°	278.0	261.9	246.5	233.4	222.8	212.9	202.6	196.7	189.1	185.9	183.6
55°	248.8	233.4	218.6	207.0	196.4	186.2	179.8	172.5	168.9	166.5	163.6
57.5°	219.5	205.7	194.3	182.6	171.9	163.8	156.5	152.0	148.4	145.2	141.8
60°	201.0	187.6	177.4	166.5	155.6	148.9	143.3	138.0	133.7	128.8	127.4
62.5°	181.3	169.6	160.2	149.6	140.1	133.9	128.7	123.7	118.6	111.4	109.4
65°	154.2	145.1	135.2	126.4	117.9	112.0	104.2	98.6	96.4	95.8	95.4
67.5°	129.7	121.0	112.5	103.6	95.9	90.3	86.3	85.5	84.1	83.6	82.7
70°	113.3	105.3	96.8	88.3	81.0	79.9	78.5	77.1	75.3	74.6	73.9
72.5°	98.7	90.3	81.9	75.1	71.9	70.6	69.2	67.8	66.6	65.9	65.5
75°	75.7	68.0	62.3	59.9	58.1	57.0	55.0	53.8	53.2	52.1	51.7
77.5°	54.5	50.1	47.5	46.0	44.1	43.0	41.8	40.7	40.0	39.8	39.2
80°	41.6	39.4	37.7	35.5	34.9	33.5	33.1	32.0	32.4	31.3	31.3
82.5°	32.2	29.6	28.1	27.1	26.4	25.3	24.9	24.4	24.5	23.8	23.8
85°	16.6	15.8	15.2	14.4	14.4	13.4	13.8	13.4	13.4	12.6	12.3
87.5°	7.0	7.3	7.4	8.0	8.7	9.1	9.0	8.7	8.7	8.6	8.3
90°	8.2	10.8	14.2	17.6	21.0	24.5	24.1	23.8	23.6	23.3	23.2
92.5°	17.9	19.0	19.8	20.6	21.4	22.2	22.3	22.3	22.4	22.5	22.5
95°	42.6	43.5	43.8	44.1	44.5	44.8	44.8	44.8	44.8	44.8	44.6
97.5°	71.9	72.9	73.5	74.1	74.6	75.2	75.2	75.2	75.2	75.2	75.2
100°	93.8	94.6	95.1	95.6	96.0	96.5	96.5	96.5	96.5	96.5	96.4
102.5°	116.3	117.1	117.7	118.3	118.9	119.4	119.6	119.7	119.8	120.0	120.0
105°	152.2	152.6	153.0	153.3	153.5	153.9	154.2	154.5	154.8	155.1	155.2
107.5°	191.4	191.8	191.8	191.8	191.8	191.8	191.9	192.0	192.2	192.3	192.0
110°	217.1	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.3



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	243.9	244.3	244.2	244.0	243.9	243.8	243.5	243.1	242.7	242.3	242.0
115°	283.5	283.8	283.5	283.1	282.9	282.6	282.4	282.3	282.1	281.9	281.6
117.5°	324.1	324.3	323.5	322.6	321.8	320.9	320.6	320.2	319.8	319.4	319.0
120°	350.4	350.4	349.2	348.0	346.8	345.5	345.5	345.5	345.5	345.5	345.3
122.5°	375.5	375.9	374.9	374.1	373.2	372.4	372.0	371.6	371.3	370.9	370.5
125°	412.6	413.1	412.6	412.2	411.7	411.2	410.8	410.3	409.8	409.3	409.1
127.5°	450.6	451.3	450.7	450.2	449.6	449.0	448.5	447.9	447.3	446.8	446.3
130°	474.6	475.4	475.1	474.9	474.5	474.2	473.9	473.6	473.3	473.0	472.5
132.5°	498.8	499.7	499.7	499.8	499.9	499.9	499.3	498.6	497.9	497.2	496.6
135°	533.5	534.5	534.8	535.2	535.5	535.7	535.6	535.5	535.3	535.2	534.8
137.5°	568.4	569.4	569.8	570.2	570.6	571.0	570.9	570.7	570.6	570.5	570.1
140°	590.3	591.4	592.2	593.0	593.7	594.5	594.5	594.5	594.5	594.5	594.2
142.5°	612.7	613.7	614.2	614.7	615.2	615.8	615.9	616.0	616.1	616.2	616.0
145°	643.7	644.6	645.5	646.5	647.4	648.4	648.5	648.7	648.8	648.9	648.8
147.5°	673.2	674.1	674.8	675.3	676.0	676.7	676.9	677.3	677.6	678.0	677.9
150°	691.3	692.0	692.7	693.2	693.9	694.6	695.0	695.4	695.9	696.4	696.4
152.5°	708.6	709.5	710.2	711.0	711.7	712.5	713.0	713.6	714.2	714.8	714.8
155°	732.7	733.2	733.7	734.1	734.6	735.1	735.8	736.6	737.4	738.2	738.4
157.5°	754.4	754.7	755.0	755.3	755.5	755.8	756.9	757.9	758.9	760.0	760.2
160°	767.8	768.1	768.2	768.4	768.5	768.6	769.6	770.5	771.5	772.4	772.5
162.5°	779.1	779.2	779.4	779.6	779.7	779.9	780.9	781.9	783.1	784.1	784.2
165°	794.7	794.6	794.6	794.6	794.6	794.6	795.6	796.7	797.8	798.9	799.1
167.5°	807.1	806.8	806.8	806.7	806.7	806.7	807.8	808.9	809.9	811.1	811.2
170°	814.4	814.1	813.9	813.7	813.6	813.4	814.5	815.6	816.7	817.7	817.8
172.5°	819.4	819.1	818.9	818.8	818.6	818.4	819.5	820.7	821.7	822.8	822.8
175°	825.6	825.2	824.8	824.5	824.3	823.9	825.0	826.0	827.2	828.3	828.3
177.5°	828.4	828.1	827.8	827.6	827.4	827.1	827.8	828.6	829.3	830.1	830.1
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	972.7	973.3	972.4	973.0	972.4	973.3	972.7	975.8	976.4	976.9	976.4
5°	906.3	902.1	901.4	900.4	901.4	902.1	906.3	908.1	909.6	912.3	917.3
7.5°	827.1	826.4	824.7	822.2	824.7	826.4	827.1	833.1	837.9	843.4	853.5
10°	776.1	774.4	774.0	771.6	774.0	774.4	776.1	783.8	789.5	797.2	811.0
12.5°	716.4	705.1	703.9	697.8	703.9	705.1	716.4	726.4	741.6	749.0	763.6
15°	610.0	607.8	600.9	596.3	600.9	607.8	610.0	618.4	624.1	644.5	668.1
17.5°	549.1	542.2	540.1	539.1	540.1	542.2	549.1	553.3	561.3	572.0	586.3
20°	510.0	503.7	502.7	501.9	502.7	503.7	510.0	514.9	521.3	532.9	547.7
22.5°	483.0	476.4	473.6	471.6	473.6	476.4	483.0	486.8	492.6	501.6	511.6
25°	436.8	434.3	432.9	432.3	432.9	434.3	436.8	440.4	445.9	458.3	468.8
27.5°	400.7	395.3	394.2	392.4	394.2	395.3	400.7	407.0	412.8	418.4	427.8
30°	380.1	378.3	375.9	373.8	375.9	378.3	380.1	383.3	387.2	396.7	405.9
32.5°	355.9	354.5	352.2	351.3	352.2	354.5	355.9	360.2	368.3	374.2	380.8
35°	329.1	324.1	322.1	318.9	322.1	324.1	329.1	332.6	335.8	340.7	352.7
37.5°	300.8	298.1	295.2	296.2	295.2	298.1	300.8	302.2	308.9	315.8	320.9
40°	278.8	277.0	276.3	276.0	276.3	277.0	278.8	283.3	291.4	294.6	302.4
42.5°	261.3	256.5	254.6	254.6	254.6	256.5	261.3	266.5	271.5	276.5	284.6
45°	234.8	230.2	227.1	227.3	227.1	230.2	234.8	236.5	240.7	251.0	255.5
47.5°	207.6	207.5	205.5	206.1	205.5	207.5	207.6	210.7	216.0	222.3	229.6
50°	194.6	192.6	191.1	191.4	191.1	192.6	194.6	197.1	200.3	203.4	214.7
52.5°	182.3	180.4	179.3	180.8	179.3	180.4	182.3	183.6	185.9	189.1	196.7
55°	161.9	159.8	159.5	159.1	159.5	159.8	161.9	163.6	166.5	168.9	172.5
57.5°	139.2	137.8	135.6	134.8	135.6	137.8	139.2	141.8	145.2	148.4	152.0
60°	122.8	120.0	116.5	116.1	116.5	120.0	122.8	127.4	128.8	133.7	138.0
62.5°	107.9	107.4	106.7	106.6	106.7	107.4	107.9	109.4	111.4	118.6	123.7
65°	94.7	94.3	94.7	95.0	94.7	94.3	94.7	95.4	95.8	96.4	98.6
67.5°	82.5	81.9	81.2	81.5	81.2	81.9	82.5	82.7	83.6	84.1	85.5
70°	73.2	72.9	72.5	72.5	72.5	72.9	73.2	73.9	74.6	75.3	77.1
72.5°	64.2	64.1	63.8	63.5	63.8	64.1	64.2	65.5	65.9	66.6	67.8
75°	51.4	50.7	50.7	50.7	50.7	50.7	51.4	51.7	52.1	53.2	53.8
77.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.2	39.8	40.0	40.7
80°	31.0	30.6	30.3	30.3	30.3	30.6	31.0	31.3	31.3	32.4	32.0
82.5°	23.7	23.3	23.2	22.9	23.2	23.3	23.7	23.8	23.8	24.5	24.4
85°	12.6	13.0	12.6	13.4	12.6	13.0	12.6	12.3	12.6	13.4	13.4
87.5°	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.3	8.6	8.7	8.7
90°	23.3	23.5	23.7	23.8	23.7	23.5	23.3	23.2	23.3	23.6	23.8
92.5°	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.5	22.5	22.4	22.3
95°	44.3	44.0	43.6	43.4	43.6	44.0	44.3	44.6	44.8	44.8	44.8
97.5°	75.2	75.2	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2
100°	96.3	96.1	96.0	95.9	96.0	96.1	96.3	96.4	96.5	96.5	96.5
102.5°	119.8	119.6	119.5	119.3	119.5	119.6	119.8	120.0	120.0	119.8	119.7
105°	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.1	154.8	154.5
107.5°	191.2	190.6	189.8	189.2	189.8	190.6	191.2	192.0	192.3	192.2	192.0
110°	216.8	216.3	215.8	215.5	215.8	216.3	216.8	217.3	217.5	217.5	217.5



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.7	241.3	240.9	240.6	240.9	241.3	241.7	242.0	242.3	242.7	243.1
115°	281.2	280.7	280.2	279.7	280.2	280.7	281.2	281.6	281.9	282.1	282.3
117.5°	318.5	318.0	317.5	317.1	317.5	318.0	318.5	319.0	319.4	319.8	320.2
120°	344.8	344.3	343.8	343.4	343.8	344.3	344.8	345.3	345.5	345.5	345.5
122.5°	370.1	369.9	369.5	369.2	369.5	369.9	370.1	370.5	370.9	371.3	371.6
125°	409.0	408.8	408.6	408.5	408.6	408.8	409.0	409.1	409.3	409.8	410.3
127.5°	445.7	445.3	444.8	444.3	444.8	445.3	445.7	446.3	446.8	447.3	447.9
130°	471.8	471.3	470.6	470.0	470.6	471.3	471.8	472.5	473.0	473.3	473.6
132.5°	496.2	495.6	495.1	494.6	495.1	495.6	496.2	496.6	497.2	497.9	498.6
135°	534.3	533.9	533.4	532.9	533.4	533.9	534.3	534.8	535.2	535.3	535.5
137.5°	569.5	568.9	568.3	567.6	568.3	568.9	569.5	570.1	570.5	570.6	570.7
140°	593.6	593.0	592.3	591.7	592.3	593.0	593.6	594.2	594.5	594.5	594.5
142.5°	615.4	614.7	614.2	613.5	614.2	614.7	615.4	616.0	616.2	616.1	616.0
145°	648.1	647.5	646.9	646.3	646.9	647.5	648.1	648.8	648.9	648.8	648.7
147.5°	677.3	676.7	676.1	675.5	676.1	676.7	677.3	677.9	678.0	677.6	677.3
150°	695.9	695.4	695.0	694.6	695.0	695.4	695.9	696.4	696.4	695.9	695.4
152.5°	714.2	713.6	713.0	712.5	713.0	713.6	714.2	714.8	714.8	714.2	713.6
155°	737.9	737.4	737.0	736.5	737.0	737.4	737.9	738.4	738.2	737.4	736.6
157.5°	759.4	758.7	757.9	757.1	757.9	758.7	759.4	760.2	760.0	758.9	757.9
160°	771.9	771.3	770.7	770.1	770.7	771.3	771.9	772.5	772.4	771.5	770.5
162.5°	783.4	782.8	782.0	781.3	782.0	782.8	783.4	784.2	784.1	783.1	781.9
165°	798.2	797.5	796.7	796.0	796.7	797.5	798.2	799.1	798.9	797.8	796.7
167.5°	810.4	809.5	808.8	807.9	808.8	809.5	810.4	811.2	811.1	809.9	808.9
170°	816.9	816.0	815.0	814.1	815.0	816.0	816.9	817.8	817.7	816.7	815.6
172.5°	822.0	821.0	820.1	819.2	820.1	821.0	822.0	822.8	822.8	821.7	820.7
175°	827.4	826.5	825.6	824.6	825.6	826.5	827.4	828.3	828.3	827.2	826.0
177.5°	829.3	828.6	827.8	827.1	827.8	828.6	829.3	830.1	830.1	829.3	828.6
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	974.1	978.1	984.0	987.4	993.0	996.6	998.6	1002.3	1004.3	1011.3	1018.6
5°	919.7	925.4	935.2	944.3	954.2	964.4	971.9	980.2	988.0	1001.4	1015.5
7.5°	857.3	865.2	880.4	895.0	912.2	926.6	939.3	953.8	966.7	985.8	1005.8
10°	810.6	824.3	844.4	858.1	880.6	895.0	915.1	930.9	949.0	974.3	996.8
12.5°	770.3	786.9	803.0	822.1	842.4	866.4	888.4	908.7	930.1	956.3	982.7
15°	697.3	721.2	746.2	765.5	793.1	818.3	844.0	871.5	897.6	928.9	963.4
17.5°	603.2	630.9	673.0	706.2	738.4	763.8	795.6	828.9	859.5	897.3	935.7
20°	560.7	581.1	609.6	654.3	702.9	730.0	762.4	799.0	834.2	875.3	916.5
22.5°	526.6	544.8	567.7	602.5	656.8	693.7	727.5	764.7	805.5	847.5	893.2
25°	478.0	490.7	514.6	542.7	580.0	640.9	677.9	715.2	759.6	804.6	856.7
27.5°	441.5	452.9	468.4	495.3	523.0	566.8	625.6	666.2	710.4	761.1	815.2
30°	413.6	427.0	444.2	463.2	493.5	527.6	586.4	633.6	677.2	729.3	787.0
32.5°	393.3	403.9	418.6	437.9	463.1	495.8	542.7	600.0	642.5	697.5	757.7
35°	360.1	372.4	384.4	402.7	423.1	453.0	488.5	549.8	592.0	646.2	706.8
37.5°	332.7	340.3	353.5	368.0	389.5	411.8	442.6	497.6	543.3	596.4	658.5
40°	311.9	321.3	331.2	347.4	365.0	386.4	416.7	457.6	510.0	562.1	622.6
42.5°	291.6	303.6	314.1	324.9	344.1	365.6	390.3	424.9	478.4	527.7	586.6
45°	267.1	274.9	285.8	297.7	313.6	332.0	353.7	384.0	435.4	478.0	533.3
47.5°	238.7	250.1	257.1	268.8	283.9	301.3	321.6	347.8	389.5	429.3	480.6
50°	219.3	230.9	241.1	251.7	265.0	281.9	298.8	324.1	357.6	399.5	447.3
52.5°	202.6	212.9	222.8	233.4	246.5	261.9	278.0	300.2	328.9	367.4	413.9
55°	179.8	186.2	196.4	207.0	218.6	233.4	248.8	267.5	292.2	324.5	362.2
57.5°	156.5	163.8	171.9	182.6	194.3	205.7	219.5	236.5	255.9	285.2	317.4
60°	143.3	148.9	155.6	166.5	177.4	187.6	201.0	215.1	233.4	258.7	286.2
62.5°	128.7	133.9	140.1	149.6	160.2	169.6	181.3	196.2	211.7	234.8	258.8
65°	104.2	112.0	117.9	126.4	135.2	145.1	154.2	166.2	179.8	198.1	219.6
67.5°	86.3	90.3	95.9	103.6	112.5	121.0	129.7	139.0	150.9	165.0	182.1
70°	78.5	79.9	81.0	88.3	96.8	105.3	113.3	122.2	132.3	143.9	158.7
72.5°	69.2	70.6	71.9	75.1	81.9	90.3	98.7	105.3	114.9	124.5	136.5
75°	55.0	57.0	58.1	59.9	62.3	68.0	75.7	82.0	87.7	95.0	104.5
77.5°	41.8	43.0	44.1	46.0	47.5	50.1	54.5	60.2	65.5	69.7	76.3
80°	33.1	33.5	34.9	35.5	37.7	39.4	41.6	46.1	51.4	53.2	57.7
82.5°	24.9	25.3	26.4	27.1	28.1	29.6	32.2	33.5	37.6	39.9	42.8
85°	13.8	13.4	14.4	14.4	15.2	15.8	16.6	18.3	19.3	22.1	22.9
87.5°	9.0	9.1	8.7	8.0	7.4	7.3	7.0	6.9	7.1	7.5	8.3
90°	24.1	24.5	21.0	17.6	14.2	10.8	8.2	6.3	4.4	2.5	0.7
92.5°	22.3	22.2	21.4	20.6	19.8	19.0	17.9	16.6	15.2	13.9	12.4
95°	44.8	44.8	44.5	44.1	43.8	43.5	42.6	41.0	39.5	37.9	36.4
97.5°	75.2	75.2	74.6	74.1	73.5	72.9	71.9	70.5	69.2	67.8	66.4
100°	96.5	96.5	96.0	95.6	95.1	94.6	93.8	92.6	91.3	90.1	88.8
102.5°	119.6	119.4	118.9	118.3	117.7	117.1	116.3	115.3	114.3	113.3	112.4
105°	154.2	153.9	153.5	153.3	153.0	152.6	152.2	151.7	151.3	150.8	150.3
107.5°	191.9	191.8	191.8	191.8	191.8	191.8	191.4	190.8	190.1	189.4	188.7
110°	217.5	217.5	217.5	217.5	217.5	217.5	217.1	216.1	215.2	214.2	213.3



TEST NUMBER: P331790-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	243.5	243.8	243.9	244.0	244.2	244.3	243.9	243.0	242.0	241.1	240.2
115°	282.4	282.6	282.9	283.1	283.5	283.8	283.5	282.6	281.6	280.7	279.7
117.5°	320.6	320.9	321.8	322.6	323.5	324.3	324.1	322.9	321.7	320.5	319.2
120°	345.5	345.5	346.8	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5
122.5°	372.0	372.4	373.2	374.1	374.9	375.9	375.5	374.0	372.6	371.1	369.6
125°	410.8	411.2	411.7	412.2	412.6	413.1	412.6	411.2	409.8	408.5	407.1
127.5°	448.5	449.0	449.6	450.2	450.7	451.3	450.6	448.8	447.1	445.4	443.6
130°	473.9	474.2	474.5	474.9	475.1	475.4	474.6	472.6	470.5	468.5	466.5
132.5°	499.3	499.9	499.9	499.8	499.7	499.7	498.8	497.2	495.6	493.9	492.3
135°	535.6	535.7	535.5	535.2	534.8	534.5	533.5	531.8	530.1	528.4	526.7
137.5°	570.9	571.0	570.6	570.2	569.8	569.4	568.4	567.1	565.7	564.3	562.9
140°	594.5	594.5	593.7	593.0	592.2	591.4	590.3	588.9	587.5	586.1	584.8
142.5°	615.9	615.8	615.2	614.7	614.2	613.7	612.7	611.3	609.9	608.5	607.1
145°	648.5	648.4	647.4	646.5	645.5	644.6	643.7	642.5	641.4	640.4	639.2
147.5°	676.9	676.7	676.0	675.3	674.8	674.1	673.2	671.8	670.5	669.2	668.0
150°	695.0	694.6	693.9	693.2	692.7	692.0	691.3	690.3	689.4	688.4	687.5
152.5°	713.0	712.5	711.7	711.0	710.2	709.5	708.6	707.7	706.7	705.8	704.8
155°	735.8	735.1	734.6	734.1	733.7	733.2	732.7	732.3	731.8	731.3	730.8
157.5°	756.9	755.8	755.5	755.3	755.0	754.7	754.4	754.0	753.8	753.5	753.1
160°	769.6	768.6	768.5	768.4	768.2	768.1	767.8	767.5	767.1	766.9	766.6
162.5°	780.9	779.9	779.7	779.6	779.4	779.2	779.1	779.0	779.0	778.9	778.8
165°	795.6	794.6	794.6	794.6	794.6	794.6	794.7	794.8	794.9	795.0	795.2
167.5°	807.8	806.7	806.7	806.7	806.8	806.8	807.1	807.6	808.0	808.5	809.0
170°	814.5	813.4	813.6	813.7	813.9	814.1	814.4	814.8	815.3	815.8	816.2
172.5°	819.5	818.4	818.6	818.8	818.9	819.1	819.4	819.8	820.3	820.8	821.2
175°	825.0	823.9	824.3	824.5	824.8	825.2	825.6	826.0	826.5	827.0	827.4
177.5°	827.8	827.1	827.4	827.6	827.8	828.1	828.4	828.8	829.2	829.5	829.9
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



TEST NUMBER: P331790-830

CATALOG NUMBER: S122RDIW-S485D710U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1018.9	1019.7	1025.4	1027.9	1033.0	1035.0	1037.2	1036.6	1036.6	1037.7	1045.7
5°	1021.1	1028.1	1038.7	1048.9	1058.8	1067.2	1072.8	1078.5	1080.5	1090.8	1099.9
7.5°	1017.5	1030.4	1047.8	1063.4	1082.0	1096.6	1108.7	1119.6	1127.1	1142.0	1157.2
10°	1012.7	1031.0	1050.7	1070.7	1096.5	1115.8	1135.5	1150.7	1155.6	1177.7	1190.4
12.5°	1003.1	1027.6	1052.6	1078.6	1103.7	1130.4	1152.1	1167.2	1184.6	1204.5	1227.9
15°	988.7	1016.9	1049.6	1083.1	1119.0	1151.3	1174.6	1201.0	1219.9	1241.8	1262.2
17.5°	968.1	1004.4	1045.9	1084.7	1126.1	1160.9	1193.0	1218.2	1231.6	1244.1	1247.2
20°	951.8	990.8	1039.7	1085.5	1127.0	1167.2	1198.8	1219.9	1223.5	1223.8	1205.1
22.5°	934.1	978.2	1029.4	1076.2	1125.9	1170.5	1195.1	1204.2	1190.2	1166.4	1130.3
25°	901.4	952.4	1011.9	1065.5	1119.6	1161.9	1170.4	1154.5	1105.6	1054.1	989.1
27.5°	866.1	923.4	987.2	1046.7	1104.5	1130.7	1112.4	1055.3	967.1	890.6	797.8
30°	840.2	904.6	967.2	1033.8	1087.2	1098.5	1056.7	972.5	869.8	754.3	661.8
32.5°	810.6	878.1	947.0	1015.8	1060.5	1049.5	980.3	876.8	756.3	642.8	555.3
35°	768.4	838.1	912.3	981.3	1009.8	962.3	858.8	724.1	600.9	494.9	434.7
37.5°	719.6	795.5	872.7	936.0	934.1	854.8	713.9	574.7	471.2	408.5	365.6
40°	684.9	761.7	845.1	898.6	875.7	772.6	619.8	488.5	412.8	362.9	331.6
42.5°	651.8	728.8	811.6	854.1	814.4	687.6	535.4	432.5	370.0	331.1	305.7
45°	595.2	676.5	753.3	776.8	705.7	566.0	432.9	358.4	316.8	287.9	270.3
47.5°	540.0	619.9	689.9	690.4	594.2	459.0	365.2	310.1	274.7	252.3	239.5
50°	506.1	582.2	640.9	631.8	522.7	408.3	326.6	279.1	249.6	232.3	219.0
52.5°	468.2	541.9	592.8	566.8	462.1	359.3	292.0	252.1	227.6	212.6	200.7
55°	412.8	478.3	514.3	474.9	377.0	298.8	246.8	215.4	197.1	184.5	174.3
57.5°	358.6	412.6	435.2	389.3	310.5	247.8	208.7	185.2	167.0	158.0	152.7
60°	324.5	370.6	386.4	335.8	269.9	216.8	184.8	163.0	149.6	143.6	138.4
62.5°	291.1	328.7	335.3	288.8	235.4	189.8	162.3	143.8	135.0	129.2	124.2
65°	241.5	268.5	265.4	228.1	186.2	150.6	130.5	119.3	112.6	104.5	95.8
67.5°	198.8	215.4	205.4	177.4	142.1	117.1	104.0	95.5	87.2	79.5	77.5
70°	171.7	181.3	170.7	145.1	116.5	98.2	87.7	77.5	72.5	70.8	67.6
72.5°	145.9	149.2	137.8	115.7	94.8	81.3	71.1	65.3	62.7	61.2	59.1
75°	109.4	107.0	97.2	79.9	65.8	56.6	53.5	51.4	49.7	48.3	47.1
77.5°	76.9	73.2	64.5	53.3	45.8	41.5	39.6	38.5	37.6	36.9	35.8
80°	57.7	55.2	46.5	38.0	34.9	32.7	31.7	30.3	30.3	29.6	28.5
82.5°	42.2	39.5	31.9	27.9	26.1	24.9	24.0	23.2	22.9	23.1	22.3
85°	22.1	17.9	15.8	15.2	14.0	13.4	13.8	13.0	13.0	13.0	12.6
87.5°	7.3	6.2	6.3	6.4	7.3	7.9	8.3	9.0	10.0	9.6	9.8
90°	2.5	4.4	6.3	8.2	10.8	14.2	17.6	21.0	24.5	24.1	23.8
92.5°	13.9	15.2	16.6	17.9	19.0	19.8	20.6	21.4	22.2	22.3	22.3
95°	37.9	39.5	41.0	42.6	43.5	43.8	44.1	44.5	44.8	44.8	44.8
97.5°	67.8	69.2	70.5	71.9	72.9	73.5	74.1	74.6	75.2	75.2	75.2
100°	90.1	91.3	92.6	93.8	94.6	95.1	95.6	96.0	96.5	96.5	96.5
102.5°	113.3	114.3	115.3	116.3	117.1	117.7	118.3	118.9	119.4	119.6	119.7
105°	150.8	151.3	151.7	152.2	152.6	153.0	153.3	153.5	153.9	154.2	154.5
107.5°	189.4	190.1	190.8	191.4	191.8	191.8	191.8	191.8	191.8	191.9	192.0
110°	214.2	215.2	216.1	217.1	217.5	217.5	217.5	217.5	217.5	217.5	217.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	241.1	242.0	243.0	243.9	244.3	244.2	244.0	243.9	243.8	243.5	243.1
115°	280.7	281.6	282.6	283.5	283.8	283.5	283.1	282.9	282.6	282.4	282.3
117.5°	320.5	321.7	322.9	324.1	324.3	323.5	322.6	321.8	320.9	320.6	320.2
120°	346.8	348.0	349.2	350.4	350.4	349.2	348.0	346.8	345.5	345.5	345.5
122.5°	371.1	372.6	374.0	375.5	375.9	374.9	374.1	373.2	372.4	372.0	371.6
125°	408.5	409.8	411.2	412.6	413.1	412.6	412.2	411.7	411.2	410.8	410.3
127.5°	445.4	447.1	448.8	450.6	451.3	450.7	450.2	449.6	449.0	448.5	447.9
130°	468.5	470.5	472.6	474.6	475.4	475.1	474.9	474.5	474.2	473.9	473.6
132.5°	493.9	495.6	497.2	498.8	499.7	499.7	499.8	499.9	499.9	499.3	498.6
135°	528.4	530.1	531.8	533.5	534.5	534.8	535.2	535.5	535.7	535.6	535.5
137.5°	564.3	565.7	567.1	568.4	569.4	569.8	570.2	570.6	571.0	570.9	570.7
140°	586.1	587.5	588.9	590.3	591.4	592.2	593.0	593.7	594.5	594.5	594.5
142.5°	608.5	609.9	611.3	612.7	613.7	614.2	614.7	615.2	615.8	615.9	616.0
145°	640.4	641.4	642.5	643.7	644.6	645.5	646.5	647.4	648.4	648.5	648.7
147.5°	669.2	670.5	671.8	673.2	674.1	674.8	675.3	676.0	676.7	676.9	677.3
150°	688.4	689.4	690.3	691.3	692.0	692.7	693.2	693.9	694.6	695.0	695.4
152.5°	705.8	706.7	707.7	708.6	709.5	710.2	711.0	711.7	712.5	713.0	713.6
155°	731.3	731.8	732.3	732.7	733.2	733.7	734.1	734.6	735.1	735.8	736.6
157.5°	753.5	753.8	754.0	754.4	754.7	755.0	755.3	755.5	755.8	756.9	757.9
160°	766.9	767.1	767.5	767.8	768.1	768.2	768.4	768.5	768.6	769.6	770.5
162.5°	778.9	779.0	779.0	779.1	779.2	779.4	779.6	779.7	779.9	780.9	781.9
165°	795.0	794.9	794.8	794.7	794.6	794.6	794.6	794.6	794.6	795.6	796.7
167.5°	808.5	808.0	807.6	807.1	806.8	806.8	806.7	806.7	806.7	807.8	808.9
170°	815.8	815.3	814.8	814.4	814.1	813.9	813.7	813.6	813.4	814.5	815.6
172.5°	820.8	820.3	819.8	819.4	819.1	818.9	818.8	818.6	818.4	819.5	820.7
175°	827.0	826.5	826.0	825.6	825.2	824.8	824.5	824.3	823.9	825.0	826.0
177.5°	829.5	829.2	828.8	828.4	828.1	827.8	827.6	827.4	827.1	827.8	828.6
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1048.5	1052.2	1053.9	1053.9	1055.8	1055.0	1054.1
5°	1108.7	1115.4	1116.8	1123.1	1127.8	1126.3	1127.0
7.5°	1168.7	1179.4	1190.1	1194.9	1195.7	1198.5	1199.6
10°	1205.5	1214.4	1230.9	1228.4	1240.8	1247.7	1236.1
12.5°	1241.0	1252.9	1264.4	1267.5	1274.5	1276.8	1272.1
15°	1273.1	1279.4	1280.2	1278.4	1280.5	1278.7	1272.1
17.5°	1243.1	1232.8	1212.0	1202.1	1194.3	1182.8	1178.2
20°	1193.5	1163.3	1128.1	1114.0	1097.5	1065.1	1072.8
22.5°	1086.6	1052.1	1016.9	975.7	956.1	925.4	923.6
25°	920.1	860.6	795.1	749.3	722.6	692.0	678.6
27.5°	715.4	640.5	586.8	559.7	534.9	510.7	509.6
30°	580.8	524.4	483.0	459.7	444.6	434.3	436.5
32.5°	489.6	450.9	422.9	403.7	392.5	384.7	384.7
35°	400.2	373.8	355.8	347.8	339.7	334.0	334.4
37.5°	342.5	326.6	316.6	307.7	302.7	299.9	298.3
40°	312.9	299.9	292.2	286.9	282.7	278.8	278.1
42.5°	289.5	278.8	271.0	266.8	263.0	260.1	259.5
45°	256.9	248.2	241.1	236.5	234.8	232.3	232.3
47.5°	228.6	219.9	214.4	211.5	208.5	206.9	206.8
50°	209.4	202.7	197.8	196.0	193.6	192.6	192.2
52.5°	192.3	187.3	183.7	182.6	181.4	180.1	180.3
55°	168.9	166.2	164.8	163.6	161.9	159.8	161.2
57.5°	149.3	146.9	143.1	139.8	138.2	136.7	137.2
60°	135.5	130.5	125.6	121.8	120.7	117.5	117.5
62.5°	118.1	111.1	105.1	102.9	101.9	100.4	100.1
65°	90.8	88.0	86.6	85.2	84.5	84.5	83.8
67.5°	75.2	74.1	72.6	72.2	71.5	71.4	71.1
70°	66.5	65.1	64.4	64.1	63.3	63.7	62.7
72.5°	58.1	56.9	56.8	55.9	55.5	55.5	54.8
75°	45.7	45.7	45.4	45.1	44.4	44.0	44.4
77.5°	35.2	35.3	34.6	34.6	34.5	34.6	34.2
80°	28.2	28.5	28.2	27.8	27.4	27.8	27.4
82.5°	22.2	21.8	21.7	21.6	21.6	21.3	21.3
85°	12.6	13.0	12.6	12.3	12.3	12.3	12.6
87.5°	9.5	9.4	9.4	9.4	9.5	9.5	9.2
90°	23.6	23.3	23.2	23.3	23.5	23.7	23.8
92.5°	22.4	22.5	22.5	22.5	22.6	22.6	22.6
95°	44.8	44.8	44.6	44.3	44.0	43.6	43.4
97.5°	75.2	75.2	75.2	75.2	75.2	75.1	75.1
100°	96.5	96.5	96.4	96.3	96.1	96.0	95.9
102.5°	119.8	120.0	120.0	119.8	119.6	119.5	119.3
105°	154.8	155.1	155.2	155.2	155.2	155.2	155.2
107.5°	192.2	192.3	192.0	191.2	190.6	189.8	189.2
110°	217.5	217.5	217.3	216.8	216.3	215.8	215.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	242.3	242.0	241.7	241.3	240.9	240.6
115°	282.1	281.9	281.6	281.2	280.7	280.2	279.7
117.5°	319.8	319.4	319.0	318.5	318.0	317.5	317.1
120°	345.5	345.5	345.3	344.8	344.3	343.8	343.4
122.5°	371.3	370.9	370.5	370.1	369.9	369.5	369.2
125°	409.8	409.3	409.1	409.0	408.8	408.6	408.5
127.5°	447.3	446.8	446.3	445.7	445.3	444.8	444.3
130°	473.3	473.0	472.5	471.8	471.3	470.6	470.0
132.5°	497.9	497.2	496.6	496.2	495.6	495.1	494.6
135°	535.3	535.2	534.8	534.3	533.9	533.4	532.9
137.5°	570.6	570.5	570.1	569.5	568.9	568.3	567.6
140°	594.5	594.5	594.2	593.6	593.0	592.3	591.7
142.5°	616.1	616.2	616.0	615.4	614.7	614.2	613.5
145°	648.8	648.9	648.8	648.1	647.5	646.9	646.3
147.5°	677.6	678.0	677.9	677.3	676.7	676.1	675.5
150°	695.9	696.4	696.4	695.9	695.4	695.0	694.6
152.5°	714.2	714.8	714.8	714.2	713.6	713.0	712.5
155°	737.4	738.2	738.4	737.9	737.4	737.0	736.5
157.5°	758.9	760.0	760.2	759.4	758.7	757.9	757.1
160°	771.5	772.4	772.5	771.9	771.3	770.7	770.1
162.5°	783.1	784.1	784.2	783.4	782.8	782.0	781.3
165°	797.8	798.9	799.1	798.2	797.5	796.7	796.0
167.5°	809.9	811.1	811.2	810.4	809.5	808.8	807.9
170°	816.7	817.7	817.8	816.9	816.0	815.0	814.1
172.5°	821.7	822.8	822.8	822.0	821.0	820.1	819.2
175°	827.2	828.3	828.3	827.4	826.5	825.6	824.6
177.5°	829.3	830.1	830.1	829.3	828.6	827.8	827.1
180°	828.8	828.8	828.8	828.8	828.8	828.8	828.8

(END OF REPORT)