

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: P331785-830

Luminaire Tested: **S122RDIW-S485D435U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331785-830
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-S485D435U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.6 lumens
Efficiency: N/A
Efficacy: 112.0 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

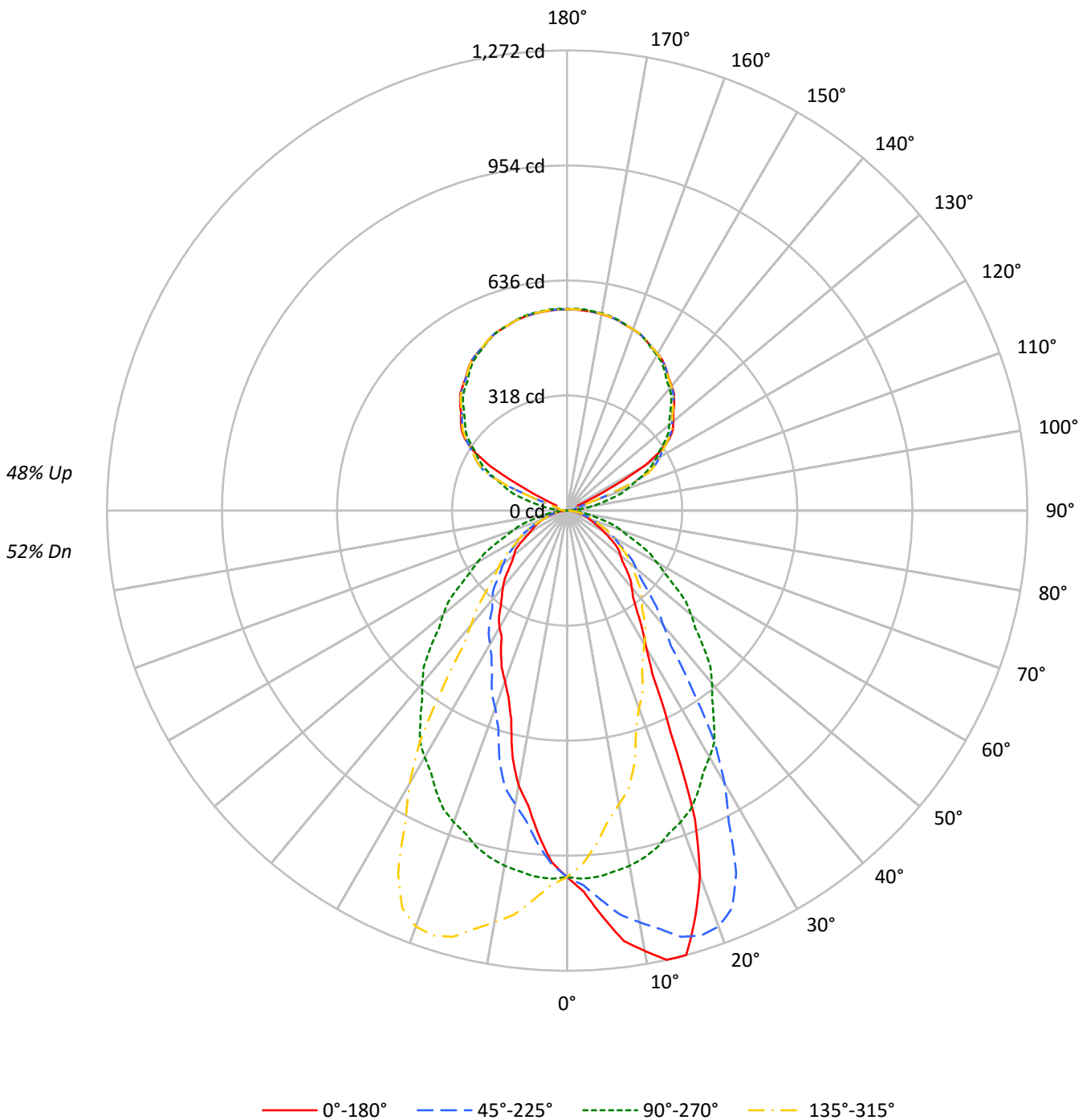
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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	99	99	99	99	84	84	84		70	70	70		58	58	58	52
1	99	95	91	88	91	88	85	82	75	73	71		63	62	60		52	51	50	45
2	91	84	78	73	84	78	73	69	67	63	60		57	54	52		47	45	44	39
3	83	75	68	62	77	69	63	59	60	55	52		51	48	45		42	40	38	34
4	77	67	59	53	71	62	56	51	54	49	45		46	42	39		39	36	34	30
5	71	60	52	46	66	56	49	44	49	43	39		42	38	35		35	32	30	27
6	66	54	46	41	61	51	44	39	44	39	35		38	34	31		32	29	27	24
7	61	49	42	36	56	46	39	35	40	35	31		35	31	28		30	27	24	22
8	57	45	38	32	53	42	36	31	37	32	28		32	28	25		28	25	22	20
9	53	41	34	29	49	39	32	28	34	29	25		30	26	23		26	23	20	18
10	50	38	31	27	46	36	30	25	32	27	23		28	24	21		24	21	19	17

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



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.8
10°-20°	267.6	7.9
20°-30°	344.8	10.2
30°-40°	327.7	9.7
40°-50°	280.7	8.3
50°-60°	213.8	6.3
60°-70°	135.1	4.0
70°-80°	67.5	2.0
80°-90°	18.9	0.6
90°-100°	18.6	0.5
100°-110°	68.1	2.0
110°-120°	182.0	5.4
120°-130°	300.5	8.9
130°-140°	319.6	9.4
140°-150°	297.0	8.8
150°-160°	238.8	7.1
160°-170°	153.9	4.5
170°-180°	53.0	1.6
0°-30°	708.4	20.9
0°-40°	1036.1	30.6
0°-60°	1530.5	45.2
0°-90°	1752.1	51.8
90°-120°	268.7	7.9
90°-150°	1185.9	35.0
90°-180°	1632.0	48.2
0°-180°	3383.6	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°	11	0	11	0	11	5
95°	17	26	17	26	17	16
105°	31	122	31	122	31	32
115°	33	232	33	232	33	83
125°	344	328	344	328	344	298
135°	419	405	419	405	419	323
145°	477	470	477	470	477	299
155°	518	518	518	518	518	239
165°	544	545	544	545	544	154
175°	555	558	555	558	555	53
180°	557	557	557	557	557	



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	6.7	6.9	6.9	6.9	6.8	6.8	6.7	6.9	6.5	6.7	6.2
90°	10.8	10.7	10.6	10.4	10.2	9.8	9.4	9.0	8.5	8.0	7.4
92.5°	10.8	10.7	10.7	10.6	10.5	10.3	10.1	9.8	9.6	9.3	9.0
95°	17.3	17.4	17.5	17.6	17.7	17.5	17.1	16.6	16.1	15.7	15.1
97.5°	23.1	23.0	22.9	22.8	22.7	22.4	22.1	21.8	21.4	21.0	19.6
100°	27.0	26.8	26.7	26.5	26.3	25.8	25.1	24.4	23.7	23.0	21.4
102.5°	28.9	28.7	28.5	28.2	27.9	27.3	26.4	25.4	24.5	23.6	36.4
105°	30.6	30.3	29.9	29.5	29.2	28.6	27.5	26.6	25.5	24.6	49.0
107.5°	31.5	31.1	30.8	30.4	30.1	30.3	31.4	32.4	33.4	34.4	63.7
110°	31.9	31.5	31.1	30.7	30.3	34.7	43.6	52.6	61.5	70.5	96.3



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	32.1	31.9	31.6	31.3	31.0	47.2	79.8	112.5	145.2	177.9	184.2
115°	33.0	39.5	45.9	52.4	58.8	82.8	124.2	165.7	207.1	248.5	246.3
117.5°	134.9	156.1	177.2	198.4	219.6	235.2	245.2	255.2	265.3	275.3	273.8
120°	245.7	257.8	269.9	282.0	294.1	299.6	298.5	297.5	296.3	295.3	293.7
122.5°	306.6	309.0	311.3	313.7	316.0	316.9	316.2	315.6	315.0	314.3	312.5
125°	344.4	344.2	343.9	343.7	343.4	342.9	342.3	341.7	341.0	340.4	338.7
127.5°	368.3	368.3	368.2	368.2	368.1	367.6	366.6	365.8	364.9	363.9	362.7
130°	383.1	383.2	383.3	383.4	383.5	383.0	382.0	381.1	380.0	379.1	378.1
132.5°	397.7	397.8	397.8	397.8	397.9	397.6	396.7	396.0	395.1	394.3	393.2
135°	418.6	418.8	419.0	419.1	419.2	419.0	418.0	417.2	416.2	415.4	414.5
137.5°	437.6	438.0	438.3	438.6	438.8	438.6	437.7	436.9	435.9	435.1	434.1
140°	449.6	450.1	450.4	450.9	451.4	451.2	450.4	449.6	448.7	448.0	447.0
142.5°	461.2	461.7	462.1	462.5	463.0	462.9	462.1	461.4	460.6	459.9	458.7
145°	477.4	477.9	478.2	478.7	479.2	479.1	478.4	477.9	477.2	476.5	475.0
147.5°	491.6	492.0	492.4	492.8	493.1	493.1	492.7	492.2	491.7	491.3	489.7
150°	500.4	500.8	501.2	501.7	502.2	502.1	501.5	501.1	500.5	499.9	498.5
152.5°	507.7	508.3	509.0	509.5	510.1	510.2	509.6	509.1	508.5	508.0	506.6
155°	518.1	518.8	519.5	520.2	520.9	521.0	520.5	520.0	519.4	518.9	517.8
157.5°	527.5	528.2	528.9	529.6	530.3	530.4	529.7	529.1	528.5	527.9	527.2
160°	533.0	533.6	534.2	534.9	535.5	535.6	535.0	534.4	534.0	533.4	532.8
162.5°	537.5	538.3	539.0	539.8	540.5	540.6	540.1	539.4	538.9	538.2	537.7
165°	544.2	544.9	545.5	546.1	546.8	546.8	546.1	545.5	544.9	544.2	544.0
167.5°	548.6	549.3	550.2	550.9	551.8	551.9	551.2	550.6	550.0	549.3	549.1
170°	551.1	552.0	552.7	553.6	554.3	554.4	553.8	553.2	552.5	552.0	551.8
172.5°	553.1	553.8	554.7	555.4	556.3	556.4	555.7	555.1	554.5	553.8	553.6
175°	554.8	555.6	556.6	557.4	558.4	558.5	557.8	557.2	556.6	555.9	555.7
177.5°	555.8	556.4	557.0	557.7	558.4	558.5	557.9	557.4	556.9	556.4	556.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	6.1	6.2	6.1	5.7	5.7	5.8	7.1	8.2	7.4	6.7	6.3
90°	6.6	5.9	5.2	4.3	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	8.7	8.3	7.9	7.8	7.8	7.9	8.0	8.1	8.0	7.9	7.8
95°	14.4	13.9	13.2	14.3	17.3	20.3	23.2	26.2	23.2	20.3	17.3
97.5°	18.1	16.7	15.3	18.7	27.0	35.3	43.6	51.9	43.6	35.3	27.0
100°	19.9	18.4	16.9	22.2	34.5	46.8	59.0	71.4	59.0	46.8	34.5
102.5°	49.1	61.8	74.6	82.2	84.8	87.4	90.0	92.6	90.0	87.4	84.8
105°	73.4	97.9	122.3	133.2	130.5	127.8	125.2	122.4	125.2	127.8	130.5
107.5°	93.0	122.3	151.7	165.2	163.1	160.9	158.7	156.6	158.7	160.9	163.1
110°	122.2	148.1	174.0	186.0	184.1	182.2	180.3	178.4	180.3	182.2	184.1



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.6	197.0	203.4	205.8	204.1	202.5	200.8	199.1	200.8	202.5	204.1
115°	244.1	241.9	239.6	237.7	236.2	234.7	233.2	231.7	233.2	234.7	236.2
117.5°	272.2	270.7	269.2	267.5	265.8	264.1	262.4	260.7	262.4	264.1	265.8
120°	292.1	290.5	288.9	287.4	286.1	284.6	283.3	282.0	283.3	284.6	286.1
122.5°	310.8	309.1	307.3	305.7	304.3	302.8	301.4	300.0	301.4	302.8	304.3
125°	337.1	335.4	333.6	332.2	331.0	329.9	328.7	327.5	328.7	329.9	331.0
127.5°	361.4	360.1	358.8	357.6	356.3	355.0	353.7	352.4	353.7	355.0	356.3
130°	377.1	376.2	375.1	373.9	372.5	371.1	369.7	368.3	369.7	371.1	372.5
132.5°	392.3	391.2	390.3	389.2	388.0	386.7	385.5	384.4	385.5	386.7	388.0
135°	413.8	412.9	412.1	411.0	409.5	408.1	406.7	405.3	406.7	408.1	409.5
137.5°	433.3	432.3	431.4	430.5	429.5	428.5	427.4	426.5	427.4	428.5	429.5
140°	446.0	445.1	444.0	443.2	442.4	441.8	441.0	440.4	441.0	441.8	442.4
142.5°	457.6	456.5	455.4	454.5	453.8	453.2	452.6	451.9	452.6	453.2	453.8
145°	473.5	472.0	470.5	469.8	469.9	470.0	470.0	470.1	470.0	470.0	469.9
147.5°	488.2	486.7	485.2	484.7	485.0	485.3	485.7	486.0	485.7	485.3	485.0
150°	497.1	495.7	494.2	493.8	494.5	495.0	495.7	496.3	495.7	495.0	494.5
152.5°	505.3	503.9	502.6	502.2	502.9	503.6	504.4	505.0	504.4	503.6	502.9
155°	516.7	515.7	514.6	514.4	515.3	516.0	516.9	517.6	516.9	516.0	515.3
157.5°	526.4	525.7	524.9	524.9	525.6	526.2	526.9	527.5	526.9	526.2	525.6
160°	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4	532.8	532.3	531.8
162.5°	537.2	536.8	536.4	536.4	537.0	537.4	538.0	538.6	538.0	537.4	537.0
165°	543.8	543.5	543.2	543.3	543.8	544.4	545.0	545.4	545.0	544.4	543.8
167.5°	548.8	548.6	548.4	548.5	549.0	549.6	550.1	550.6	550.1	549.6	549.0
170°	551.6	551.4	551.2	551.4	552.0	552.4	553.0	553.6	553.0	552.4	552.0
172.5°	553.5	553.3	553.2	553.3	553.8	554.4	555.0	555.4	555.0	554.4	553.8
175°	555.6	555.4	555.3	555.4	556.1	556.7	557.3	558.0	557.3	556.7	556.1
177.5°	556.3	556.2	556.1	556.4	556.9	557.3	557.9	558.4	557.9	557.3	556.9
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	6.2	6.1	5.7	5.8	5.9	5.8	5.9	5.7	5.8	5.9	5.7
90°	4.3	5.2	5.9	6.6	7.4	8.0	8.5	9.0	9.4	9.8	10.2
92.5°	7.8	7.9	8.3	8.7	9.0	9.3	9.6	9.8	10.1	10.3	10.5
95°	14.3	13.2	13.9	14.4	15.1	15.7	16.1	16.6	17.1	17.5	17.7
97.5°	18.7	15.3	16.7	18.1	19.6	21.0	21.4	21.8	22.1	22.4	22.7
100°	22.2	16.9	18.4	19.9	21.4	23.0	23.7	24.4	25.1	25.8	26.3
102.5°	82.2	74.6	61.8	49.1	36.4	23.6	24.5	25.4	26.4	27.3	27.9
105°	133.2	122.3	97.9	73.4	49.0	24.6	25.5	26.6	27.5	28.6	29.2
107.5°	165.2	151.7	122.3	93.0	63.7	34.4	33.4	32.4	31.4	30.3	30.1
110°	186.0	174.0	148.1	122.2	96.3	70.5	61.5	52.6	43.6	34.7	30.3



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	205.8	203.4	197.0	190.6	184.2	177.9	145.2	112.5	79.8	47.2	31.0
115°	237.7	239.6	241.9	244.1	246.3	248.5	207.1	165.7	124.2	82.8	58.8
117.5°	267.5	269.2	270.7	272.2	273.8	275.3	265.3	255.2	245.2	235.2	219.6
120°	287.4	288.9	290.5	292.1	293.7	295.3	296.3	297.5	298.5	299.6	294.1
122.5°	305.7	307.3	309.1	310.8	312.5	314.3	315.0	315.6	316.2	316.9	316.0
125°	332.2	333.6	335.4	337.1	338.7	340.4	341.0	341.7	342.3	342.9	343.4
127.5°	357.6	358.8	360.1	361.4	362.7	363.9	364.9	365.8	366.6	367.6	368.1
130°	373.9	375.1	376.2	377.1	378.1	379.1	380.0	381.1	382.0	383.0	383.5
132.5°	389.2	390.3	391.2	392.3	393.2	394.3	395.1	396.0	396.7	397.6	397.9
135°	411.0	412.1	412.9	413.8	414.5	415.4	416.2	417.2	418.0	419.0	419.2
137.5°	430.5	431.4	432.3	433.3	434.1	435.1	435.9	436.9	437.7	438.6	438.8
140°	443.2	444.0	445.1	446.0	447.0	448.0	448.7	449.6	450.4	451.2	451.4
142.5°	454.5	455.4	456.5	457.6	458.7	459.9	460.6	461.4	462.1	462.9	463.0
145°	469.8	470.5	472.0	473.5	475.0	476.5	477.2	477.9	478.4	479.1	479.2
147.5°	484.7	485.2	486.7	488.2	489.7	491.3	491.7	492.2	492.7	493.1	493.1
150°	493.8	494.2	495.7	497.1	498.5	499.9	500.5	501.1	501.5	502.1	502.2
152.5°	502.2	502.6	503.9	505.3	506.6	508.0	508.5	509.1	509.6	510.2	510.1
155°	514.4	514.6	515.7	516.7	517.8	518.9	519.4	520.0	520.5	521.0	520.9
157.5°	524.9	524.9	525.7	526.4	527.2	527.9	528.5	529.1	529.7	530.4	530.3
160°	531.2	531.2	531.8	532.3	532.8	533.4	534.0	534.4	535.0	535.6	535.5
162.5°	536.4	536.4	536.8	537.2	537.7	538.2	538.9	539.4	540.1	540.6	540.5
165°	543.3	543.2	543.5	543.8	544.0	544.2	544.9	545.5	546.1	546.8	546.8
167.5°	548.5	548.4	548.6	548.8	549.1	549.3	550.0	550.6	551.2	551.9	551.8
170°	551.4	551.2	551.4	551.6	551.8	552.0	552.5	553.2	553.8	554.4	554.3
172.5°	553.3	553.2	553.3	553.5	553.6	553.8	554.5	555.1	555.7	556.4	556.3
175°	555.4	555.3	555.4	555.6	555.7	555.9	556.6	557.2	557.8	558.5	558.4
177.5°	556.4	556.1	556.2	556.3	556.4	556.4	556.9	557.4	557.9	558.5	558.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	5.7	5.5	5.8	5.6	5.8	5.5	5.7	5.7	5.9	5.8	5.7
90°	10.4	10.6	10.7	10.8	10.7	10.6	10.4	10.2	9.8	9.4	9.0
92.5°	10.6	10.7	10.7	10.8	10.7	10.7	10.6	10.5	10.3	10.1	9.8
95°	17.6	17.5	17.4	17.3	17.4	17.5	17.6	17.7	17.5	17.1	16.6
97.5°	22.8	22.9	23.0	23.1	23.0	22.9	22.8	22.7	22.4	22.1	21.8
100°	26.5	26.7	26.8	27.0	26.8	26.7	26.5	26.3	25.8	25.1	24.4
102.5°	28.2	28.5	28.7	28.9	28.7	28.5	28.2	27.9	27.3	26.4	25.4
105°	29.5	29.9	30.3	30.6	30.3	29.9	29.5	29.2	28.6	27.5	26.6
107.5°	30.4	30.8	31.1	31.5	31.1	30.8	30.4	30.1	30.3	31.4	32.4
110°	30.7	31.1	31.5	31.9	31.5	31.1	30.7	30.3	34.7	43.6	52.6



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	31.3	31.6	31.9	32.1	31.9	31.6	31.3	31.0	47.2	79.8	112.5
115°	52.4	45.9	39.5	33.0	39.5	45.9	52.4	58.8	82.8	124.2	165.7
117.5°	198.4	177.2	156.1	134.9	156.1	177.2	198.4	219.6	235.2	245.2	255.2
120°	282.0	269.9	257.8	245.7	257.8	269.9	282.0	294.1	299.6	298.5	297.5
122.5°	313.7	311.3	309.0	306.6	309.0	311.3	313.7	316.0	316.9	316.2	315.6
125°	343.7	343.9	344.2	344.4	344.2	343.9	343.7	343.4	342.9	342.3	341.7
127.5°	368.2	368.2	368.3	368.3	368.3	368.2	368.2	368.1	367.6	366.6	365.8
130°	383.4	383.3	383.2	383.1	383.2	383.3	383.4	383.5	383.0	382.0	381.1
132.5°	397.8	397.8	397.8	397.7	397.8	397.8	397.8	397.9	397.6	396.7	396.0
135°	419.1	419.0	418.8	418.6	418.8	419.0	419.1	419.2	419.0	418.0	417.2
137.5°	438.6	438.3	438.0	437.6	438.0	438.3	438.6	438.8	438.6	437.7	436.9
140°	450.9	450.4	450.1	449.6	450.1	450.4	450.9	451.4	451.2	450.4	449.6
142.5°	462.5	462.1	461.7	461.2	461.7	462.1	462.5	463.0	462.9	462.1	461.4
145°	478.7	478.2	477.9	477.4	477.9	478.2	478.7	479.2	479.1	478.4	477.9
147.5°	492.8	492.4	492.0	491.6	492.0	492.4	492.8	493.1	493.1	492.7	492.2
150°	501.7	501.2	500.8	500.4	500.8	501.2	501.7	502.2	502.1	501.5	501.1
152.5°	509.5	509.0	508.3	507.7	508.3	509.0	509.5	510.1	510.2	509.6	509.1
155°	520.2	519.5	518.8	518.1	518.8	519.5	520.2	520.9	521.0	520.5	520.0
157.5°	529.6	528.9	528.2	527.5	528.2	528.9	529.6	530.3	530.4	529.7	529.1
160°	534.9	534.2	533.6	533.0	533.6	534.2	534.9	535.5	535.6	535.0	534.4
162.5°	539.8	539.0	538.3	537.5	538.3	539.0	539.8	540.5	540.6	540.1	539.4
165°	546.1	545.5	544.9	544.2	544.9	545.5	546.1	546.8	546.8	546.1	545.5
167.5°	550.9	550.2	549.3	548.6	549.3	550.2	550.9	551.8	551.9	551.2	550.6
170°	553.6	552.7	552.0	551.1	552.0	552.7	553.6	554.3	554.4	553.8	553.2
172.5°	555.4	554.7	553.8	553.1	553.8	554.7	555.4	556.3	556.4	555.7	555.1
175°	557.4	556.6	555.6	554.8	555.6	556.6	557.4	558.4	558.5	557.8	557.2
177.5°	557.7	557.0	556.4	555.8	556.4	557.0	557.7	558.4	558.5	557.9	557.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	5.9	5.8	5.9	5.8	5.7	6.1	6.2	6.3	6.7	7.4	8.2
90°	8.5	8.0	7.4	6.6	5.9	5.2	4.3	3.4	2.4	1.4	0.4
92.5°	9.6	9.3	9.0	8.7	8.3	7.9	7.8	7.8	7.9	8.0	8.1
95°	16.1	15.7	15.1	14.4	13.9	13.2	14.3	17.3	20.3	23.2	26.2
97.5°	21.4	21.0	19.6	18.1	16.7	15.3	18.7	27.0	35.3	43.6	51.9
100°	23.7	23.0	21.4	19.9	18.4	16.9	22.2	34.5	46.8	59.0	71.4
102.5°	24.5	23.6	36.4	49.1	61.8	74.6	82.2	84.8	87.4	90.0	92.6
105°	25.5	24.6	49.0	73.4	97.9	122.3	133.2	130.5	127.8	125.2	122.4
107.5°	33.4	34.4	63.7	93.0	122.3	151.7	165.2	163.1	160.9	158.7	156.6
110°	61.5	70.5	96.3	122.2	148.1	174.0	186.0	184.1	182.2	180.3	178.4



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	177.9	184.2	190.6	197.0	203.4	205.8	204.1	202.5	200.8	199.1
115°	207.1	248.5	246.3	244.1	241.9	239.6	237.7	236.2	234.7	233.2	231.7
117.5°	265.3	275.3	273.8	272.2	270.7	269.2	267.5	265.8	264.1	262.4	260.7
120°	296.3	295.3	293.7	292.1	290.5	288.9	287.4	286.1	284.6	283.3	282.0
122.5°	315.0	314.3	312.5	310.8	309.1	307.3	305.7	304.3	302.8	301.4	300.0
125°	341.0	340.4	338.7	337.1	335.4	333.6	332.2	331.0	329.9	328.7	327.5
127.5°	364.9	363.9	362.7	361.4	360.1	358.8	357.6	356.3	355.0	353.7	352.4
130°	380.0	379.1	378.1	377.1	376.2	375.1	373.9	372.5	371.1	369.7	368.3
132.5°	395.1	394.3	393.2	392.3	391.2	390.3	389.2	388.0	386.7	385.5	384.4
135°	416.2	415.4	414.5	413.8	412.9	412.1	411.0	409.5	408.1	406.7	405.3
137.5°	435.9	435.1	434.1	433.3	432.3	431.4	430.5	429.5	428.5	427.4	426.5
140°	448.7	448.0	447.0	446.0	445.1	444.0	443.2	442.4	441.8	441.0	440.4
142.5°	460.6	459.9	458.7	457.6	456.5	455.4	454.5	453.8	453.2	452.6	451.9
145°	477.2	476.5	475.0	473.5	472.0	470.5	469.8	469.9	470.0	470.0	470.1
147.5°	491.7	491.3	489.7	488.2	486.7	485.2	484.7	485.0	485.3	485.7	486.0
150°	500.5	499.9	498.5	497.1	495.7	494.2	493.8	494.5	495.0	495.7	496.3
152.5°	508.5	508.0	506.6	505.3	503.9	502.6	502.2	502.9	503.6	504.4	505.0
155°	519.4	518.9	517.8	516.7	515.7	514.6	514.4	515.3	516.0	516.9	517.6
157.5°	528.5	527.9	527.2	526.4	525.7	524.9	524.9	525.6	526.2	526.9	527.5
160°	534.0	533.4	532.8	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4
162.5°	538.9	538.2	537.7	537.2	536.8	536.4	536.4	537.0	537.4	538.0	538.6
165°	544.9	544.2	544.0	543.8	543.5	543.2	543.3	543.8	544.4	545.0	545.4
167.5°	550.0	549.3	549.1	548.8	548.6	548.4	548.5	549.0	549.6	550.1	550.6
170°	552.5	552.0	551.8	551.6	551.4	551.2	551.4	552.0	552.4	553.0	553.6
172.5°	554.5	553.8	553.6	553.5	553.3	553.2	553.3	553.8	554.4	555.0	555.4
175°	556.6	555.9	555.7	555.6	555.4	555.3	555.4	556.1	556.7	557.3	558.0
177.5°	556.9	556.4	556.4	556.3	556.2	556.1	556.4	556.9	557.3	557.9	558.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	7.1	5.8	5.7	5.7	6.1	6.2	6.1	6.2	6.7	6.5	6.9
90°	1.4	2.4	3.4	4.3	5.2	5.9	6.6	7.4	8.0	8.5	9.0
92.5°	8.0	7.9	7.8	7.8	7.9	8.3	8.7	9.0	9.3	9.6	9.8
95°	23.2	20.3	17.3	14.3	13.2	13.9	14.4	15.1	15.7	16.1	16.6
97.5°	43.6	35.3	27.0	18.7	15.3	16.7	18.1	19.6	21.0	21.4	21.8
100°	59.0	46.8	34.5	22.2	16.9	18.4	19.9	21.4	23.0	23.7	24.4
102.5°	90.0	87.4	84.8	82.2	74.6	61.8	49.1	36.4	23.6	24.5	25.4
105°	125.2	127.8	130.5	133.2	122.3	97.9	73.4	49.0	24.6	25.5	26.6
107.5°	158.7	160.9	163.1	165.2	151.7	122.3	93.0	63.7	34.4	33.4	32.4
110°	180.3	182.2	184.1	186.0	174.0	148.1	122.2	96.3	70.5	61.5	52.6



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	200.8	202.5	204.1	205.8	203.4	197.0	190.6	184.2	177.9	145.2	112.5
115°	233.2	234.7	236.2	237.7	239.6	241.9	244.1	246.3	248.5	207.1	165.7
117.5°	262.4	264.1	265.8	267.5	269.2	270.7	272.2	273.8	275.3	265.3	255.2
120°	283.3	284.6	286.1	287.4	288.9	290.5	292.1	293.7	295.3	296.3	297.5
122.5°	301.4	302.8	304.3	305.7	307.3	309.1	310.8	312.5	314.3	315.0	315.6
125°	328.7	329.9	331.0	332.2	333.6	335.4	337.1	338.7	340.4	341.0	341.7
127.5°	353.7	355.0	356.3	357.6	358.8	360.1	361.4	362.7	363.9	364.9	365.8
130°	369.7	371.1	372.5	373.9	375.1	376.2	377.1	378.1	379.1	380.0	381.1
132.5°	385.5	386.7	388.0	389.2	390.3	391.2	392.3	393.2	394.3	395.1	396.0
135°	406.7	408.1	409.5	411.0	412.1	412.9	413.8	414.5	415.4	416.2	417.2
137.5°	427.4	428.5	429.5	430.5	431.4	432.3	433.3	434.1	435.1	435.9	436.9
140°	441.0	441.8	442.4	443.2	444.0	445.1	446.0	447.0	448.0	448.7	449.6
142.5°	452.6	453.2	453.8	454.5	455.4	456.5	457.6	458.7	459.9	460.6	461.4
145°	470.0	470.0	469.9	469.8	470.5	472.0	473.5	475.0	476.5	477.2	477.9
147.5°	485.7	485.3	485.0	484.7	485.2	486.7	488.2	489.7	491.3	491.7	492.2
150°	495.7	495.0	494.5	493.8	494.2	495.7	497.1	498.5	499.9	500.5	501.1
152.5°	504.4	503.6	502.9	502.2	502.6	503.9	505.3	506.6	508.0	508.5	509.1
155°	516.9	516.0	515.3	514.4	514.6	515.7	516.7	517.8	518.9	519.4	520.0
157.5°	526.9	526.2	525.6	524.9	524.9	525.7	526.4	527.2	527.9	528.5	529.1
160°	532.8	532.3	531.8	531.2	531.2	531.8	532.3	532.8	533.4	534.0	534.4
162.5°	538.0	537.4	537.0	536.4	536.4	536.8	537.2	537.7	538.2	538.9	539.4
165°	545.0	544.4	543.8	543.3	543.2	543.5	543.8	544.0	544.2	544.9	545.5
167.5°	550.1	549.6	549.0	548.5	548.4	548.6	548.8	549.1	549.3	550.0	550.6
170°	553.0	552.4	552.0	551.4	551.2	551.4	551.6	551.8	552.0	552.5	553.2
172.5°	555.0	554.4	553.8	553.3	553.2	553.3	553.5	553.6	553.8	554.5	555.1
175°	557.3	556.7	556.1	555.4	555.3	555.4	555.6	555.7	555.9	556.6	557.2
177.5°	557.9	557.3	556.9	556.4	556.1	556.2	556.3	556.4	556.4	556.9	557.4
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8	556.8



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

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°	6.7	6.8	6.8	6.9	6.9	6.9	6.7
90°	9.4	9.8	10.2	10.4	10.6	10.7	10.8
92.5°	10.1	10.3	10.5	10.6	10.7	10.7	10.8
95°	17.1	17.5	17.7	17.6	17.5	17.4	17.3
97.5°	22.1	22.4	22.7	22.8	22.9	23.0	23.1
100°	25.1	25.8	26.3	26.5	26.7	26.8	27.0
102.5°	26.4	27.3	27.9	28.2	28.5	28.7	28.9
105°	27.5	28.6	29.2	29.5	29.9	30.3	30.6
107.5°	31.4	30.3	30.1	30.4	30.8	31.1	31.5
110°	43.6	34.7	30.3	30.7	31.1	31.5	31.9



TEST NUMBER: P331785-830

CATALOG NUMBER: S122RDIW-S485D435U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	79.8	47.2	31.0	31.3	31.6	31.9	32.1
115°	124.2	82.8	58.8	52.4	45.9	39.5	33.0
117.5°	245.2	235.2	219.6	198.4	177.2	156.1	134.9
120°	298.5	299.6	294.1	282.0	269.9	257.8	245.7
122.5°	316.2	316.9	316.0	313.7	311.3	309.0	306.6
125°	342.3	342.9	343.4	343.7	343.9	344.2	344.4
127.5°	366.6	367.6	368.1	368.2	368.2	368.3	368.3
130°	382.0	383.0	383.5	383.4	383.3	383.2	383.1
132.5°	396.7	397.6	397.9	397.8	397.8	397.8	397.7
135°	418.0	419.0	419.2	419.1	419.0	418.8	418.6
137.5°	437.7	438.6	438.8	438.6	438.3	438.0	437.6
140°	450.4	451.2	451.4	450.9	450.4	450.1	449.6
142.5°	462.1	462.9	463.0	462.5	462.1	461.7	461.2
145°	478.4	479.1	479.2	478.7	478.2	477.9	477.4
147.5°	492.7	493.1	493.1	492.8	492.4	492.0	491.6
150°	501.5	502.1	502.2	501.7	501.2	500.8	500.4
152.5°	509.6	510.2	510.1	509.5	509.0	508.3	507.7
155°	520.5	521.0	520.9	520.2	519.5	518.8	518.1
157.5°	529.7	530.4	530.3	529.6	528.9	528.2	527.5
160°	535.0	535.6	535.5	534.9	534.2	533.6	533.0
162.5°	540.1	540.6	540.5	539.8	539.0	538.3	537.5
165°	546.1	546.8	546.8	546.1	545.5	544.9	544.2
167.5°	551.2	551.9	551.8	550.9	550.2	549.3	548.6
170°	553.8	554.4	554.3	553.6	552.7	552.0	551.1
172.5°	555.7	556.4	556.3	555.4	554.7	553.8	553.1
175°	557.8	558.5	558.4	557.4	556.6	555.6	554.8
177.5°	557.9	558.5	558.4	557.7	557.0	556.4	555.8
180°	556.8	556.8	556.8	556.8	556.8	556.8	556.8

(END OF REPORT)