

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: P331785-940

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331785-940
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-S485D435U940-4F0-1E-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: 3201.2 lumens
Efficiency: N/A
Efficacy: 106.0 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

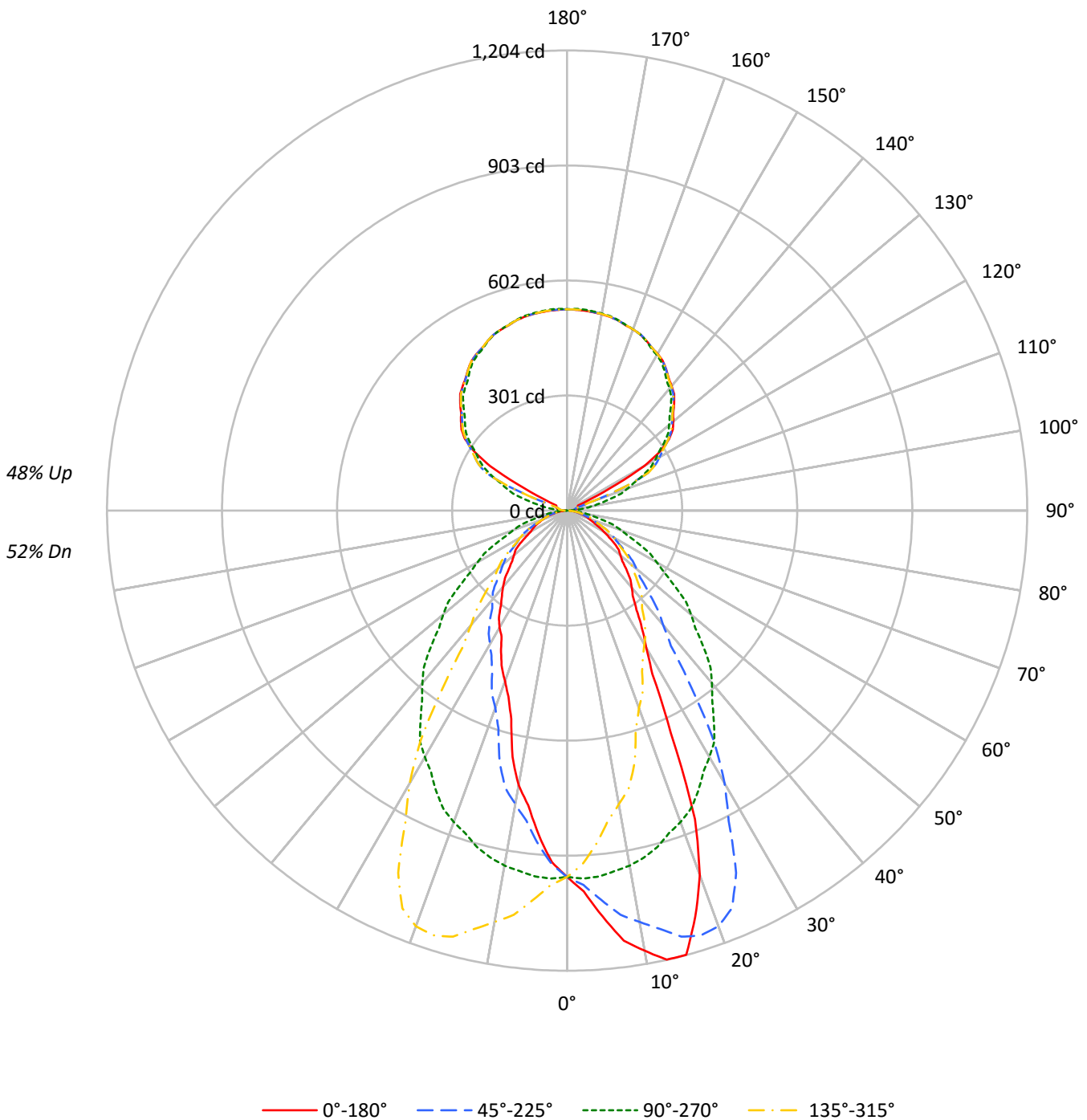
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	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°	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	2.8
10°-20°	253.1	7.9
20°-30°	326.2	10.2
30°-40°	310.0	9.7
40°-50°	265.6	8.3
50°-60°	202.2	6.3
60°-70°	127.8	4.0
70°-80°	63.8	2.0
80°-90°	17.9	0.6
90°-100°	17.6	0.5
100°-110°	64.4	2.0
110°-120°	172.2	5.4
120°-130°	284.3	8.9
130°-140°	302.4	9.4
140°-150°	281.0	8.8
150°-160°	225.9	7.1
160°-170°	145.6	4.5
170°-180°	50.1	1.6
0°-30°	670.2	20.9
0°-40°	980.2	30.6
0°-60°	1448.0	45.2
0°-90°	1657.6	51.8
90°-120°	254.2	7.9
90°-150°	1121.9	35.0
90°-180°	1544.0	48.2
0°-180°	3201.2	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°	10	0	10	0	10	5
95°	16	25	16	25	16	15
105°	29	116	29	116	29	30
115°	31	219	31	219	31	78
125°	326	310	326	310	326	282
135°	396	383	396	383	396	305
145°	452	445	452	445	452	282
155°	490	490	490	490	490	226
165°	515	516	515	516	515	145
175°	525	528	525	528	525	50
180°	527	527	527	527	527	



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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°	6.3	6.5	6.5	6.5	6.4	6.4	6.3	6.5	6.2	6.3	5.9
90°	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5	8.0	7.6	7.0
92.5°	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3	9.1	8.8	8.5
95°	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7	15.2	14.9	14.3
97.5°	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6	20.2	19.9	18.5
100°	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1	22.4	21.8	20.2
102.5°	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1	23.2	22.3	34.4
105°	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1	24.2	23.3	46.4
107.5°	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7	31.6	32.5	60.3
110°	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8	58.2	66.7	91.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5	137.3	168.3	174.2
115°	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8	195.9	235.1	233.0
117.5°	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5	251.0	260.5	259.0
120°	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4	280.4	279.4	277.9
122.5°	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5	298.0	297.4	295.7
125°	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2	322.6	322.1	320.5
127.5°	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1	345.2	344.3	343.1
130°	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5	359.5	358.6	357.8
132.5°	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6	373.8	373.0	372.0
135°	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7	393.8	393.0	392.2
137.5°	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3	412.4	411.6	410.7
140°	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3	424.5	423.8	422.8
142.5°	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5	435.8	435.1	434.0
145°	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1	451.5	450.8	449.4
147.5°	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7	465.2	464.8	463.3
150°	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0	473.5	473.0	471.6
152.5°	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6	481.1	480.6	479.3
155°	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0	491.4	490.9	489.9
157.5°	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6	500.0	499.4	498.7
160°	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6	505.2	504.6	504.1
162.5°	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3	509.8	509.2	508.7
165°	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1	515.5	514.9	514.7
167.5°	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9	520.3	519.7	519.5
170°	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3	522.7	522.2	522.0
172.5°	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1	524.6	524.0	523.8
175°	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2	526.6	525.9	525.8
177.5°	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4	526.9	526.4	526.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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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°	5.8	5.9	5.8	5.4	5.4	5.5	6.7	7.8	7.0	6.3	6.0
90°	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7	7.6	7.5	7.4
95°	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8	21.9	19.2	16.4
97.5°	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1	41.3	33.4	25.5
100°	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5	55.8	44.2	32.6
102.5°	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6	85.2	82.7	80.3
105°	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8	118.4	120.9	123.5
107.5°	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1	150.2	152.2	154.3
110°	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8	170.6	172.4	174.2



TEST NUMBER: P331785-940

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3	189.9	191.5	193.1
115°	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2	220.6	222.0	223.5
117.5°	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6	248.3	249.9	251.5
120°	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8	268.0	269.3	270.6
122.5°	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8	285.2	286.5	287.8
125°	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9	310.9	312.1	313.2
127.5°	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4	334.7	335.8	337.1
130°	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4	349.7	351.1	352.4
132.5°	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6	364.7	365.9	367.0
135°	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4	384.8	386.1	387.4
137.5°	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5	404.4	405.4	406.4
140°	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6	417.2	417.9	418.6
142.5°	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6	428.2	428.7	429.4
145°	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8	444.7	444.6	444.5
147.5°	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8	459.5	459.1	458.9
150°	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6	469.0	468.3	467.8
152.5°	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8	477.2	476.4	475.8
155°	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7	489.0	488.2	487.5
157.5°	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1	498.5	497.8	497.2
160°	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	504.1	503.6	503.1
162.5°	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5	509.0	508.5	508.0
165°	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0	515.6	515.1	514.5
167.5°	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9	520.4	520.0	519.4
170°	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7	523.2	522.6	522.2
172.5°	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5	525.0	524.5	524.0
175°	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9	527.3	526.6	526.1
177.5°	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2	527.8	527.3	526.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331785-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-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°	5.9	5.8	5.4	5.5	5.6	5.5	5.6	5.4	5.5	5.6	5.4
90°	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5	8.9	9.3	9.6
92.5°	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3	9.5	9.7	9.9
95°	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7	16.1	16.6	16.8
97.5°	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6	21.0	21.2	21.5
100°	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1	23.7	24.4	24.9
102.5°	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1	25.0	25.9	26.4
105°	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1	26.0	27.0	27.6
107.5°	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7	29.7	28.7	28.4
110°	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8	41.3	32.8	28.7



TEST NUMBER: P331785-940

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5	75.5	44.7	29.3
115°	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8	117.5	78.3	55.6
117.5°	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5	232.0	222.5	207.8
120°	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4	282.4	283.5	278.2
122.5°	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5	299.2	299.8	299.0
125°	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2	323.9	324.4	324.9
127.5°	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1	346.9	347.8	348.2
130°	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5	361.4	362.4	362.8
132.5°	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6	375.3	376.1	376.5
135°	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7	395.5	396.4	396.6
137.5°	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3	414.1	414.9	415.2
140°	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3	426.1	426.9	427.0
142.5°	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5	437.2	437.9	438.0
145°	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1	452.6	453.3	453.3
147.5°	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7	466.1	466.5	466.5
150°	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0	474.5	475.0	475.1
152.5°	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6	482.1	482.7	482.6
155°	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0	492.4	492.9	492.8
157.5°	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6	501.1	501.8	501.7
160°	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6	506.1	506.7	506.6
162.5°	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3	511.0	511.5	511.4
165°	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1	516.7	517.3	517.3
167.5°	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9	521.5	522.1	522.0
170°	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3	524.0	524.5	524.4
172.5°	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1	525.8	526.4	526.3
175°	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2	527.7	528.3	528.2
177.5°	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4	527.8	528.3	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331785-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-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°	5.4	5.2	5.5	5.3	5.5	5.2	5.4	5.4	5.6	5.5	5.4
90°	9.8	10.0	10.2	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5
92.5°	10.0	10.1	10.2	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3
95°	16.7	16.6	16.5	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7
97.5°	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6
100°	25.1	25.2	25.3	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1
102.5°	26.7	26.9	27.1	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1
105°	27.9	28.3	28.6	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1
107.5°	28.8	29.2	29.4	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7
110°	29.1	29.4	29.8	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8



TEST NUMBER: P331785-940

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.6	29.9	30.1	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5
115°	49.6	43.4	37.4	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8
117.5°	187.7	167.6	147.7	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5
120°	266.8	255.4	243.9	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4
122.5°	296.8	294.5	292.3	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5
125°	325.1	325.4	325.7	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2
127.5°	348.3	348.3	348.4	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1
130°	362.7	362.7	362.6	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5
132.5°	376.4	376.3	376.3	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6
135°	396.5	396.4	396.2	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7
137.5°	414.9	414.6	414.4	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3
140°	426.6	426.1	425.8	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3
142.5°	437.6	437.2	436.8	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5
145°	452.9	452.5	452.1	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1
147.5°	466.2	465.8	465.5	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7
150°	474.7	474.2	473.8	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0
152.5°	482.1	481.5	480.9	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6
155°	492.1	491.5	490.8	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0
157.5°	501.1	500.3	499.7	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6
160°	506.0	505.4	504.8	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6
162.5°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3
165°	516.7	516.1	515.5	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1
167.5°	521.2	520.5	519.7	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9
170°	523.7	522.9	522.2	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3
172.5°	525.5	524.8	524.0	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1
175°	527.4	526.6	525.7	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2
177.5°	527.6	527.0	526.4	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331785-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-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°	5.6	5.5	5.6	5.5	5.4	5.8	5.9	6.0	6.3	7.0	7.8
90°	8.0	7.6	7.0	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4
92.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7
95°	15.2	14.9	14.3	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8
97.5°	20.2	19.9	18.5	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1
100°	22.4	21.8	20.2	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5
102.5°	23.2	22.3	34.4	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6
105°	24.2	23.3	46.4	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8
107.5°	31.6	32.5	60.3	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1
110°	58.2	66.7	91.1	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8



TEST NUMBER: P331785-940

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.3	168.3	174.2	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3
115°	195.9	235.1	233.0	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2
117.5°	251.0	260.5	259.0	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6
120°	280.4	279.4	277.9	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8
122.5°	298.0	297.4	295.7	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8
125°	322.6	322.1	320.5	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9
127.5°	345.2	344.3	343.1	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4
130°	359.5	358.6	357.8	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4
132.5°	373.8	373.0	372.0	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6
135°	393.8	393.0	392.2	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4
137.5°	412.4	411.6	410.7	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5
140°	424.5	423.8	422.8	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6
142.5°	435.8	435.1	434.0	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6
145°	451.5	450.8	449.4	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8
147.5°	465.2	464.8	463.3	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8
150°	473.5	473.0	471.6	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6
152.5°	481.1	480.6	479.3	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8
155°	491.4	490.9	489.9	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7
157.5°	500.0	499.4	498.7	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1
160°	505.2	504.6	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6
162.5°	509.8	509.2	508.7	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5
165°	515.5	514.9	514.7	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0
167.5°	520.3	519.7	519.5	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9
170°	522.7	522.2	522.0	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7
172.5°	524.6	524.0	523.8	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5
175°	526.6	525.9	525.8	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9
177.5°	526.9	526.4	526.4	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331785-940

CATALOG NUMBER: S122RDIW-S485D435U940-4F0-1E-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°	6.7	5.5	5.4	5.4	5.8	5.9	5.8	5.9	6.3	6.2	6.5
90°	1.3	2.2	3.2	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5
92.5°	7.6	7.5	7.4	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3
95°	21.9	19.2	16.4	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7
97.5°	41.3	33.4	25.5	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6
100°	55.8	44.2	32.6	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1
102.5°	85.2	82.7	80.3	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1
105°	118.4	120.9	123.5	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1
107.5°	150.2	152.2	154.3	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7
110°	170.6	172.4	174.2	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8



TEST NUMBER: P331785-940

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.9	191.5	193.1	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5
115°	220.6	222.0	223.5	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8
117.5°	248.3	249.9	251.5	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5
120°	268.0	269.3	270.6	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4
122.5°	285.2	286.5	287.8	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5
125°	310.9	312.1	313.2	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2
127.5°	334.7	335.8	337.1	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1
130°	349.7	351.1	352.4	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5
132.5°	364.7	365.9	367.0	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6
135°	384.8	386.1	387.4	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7
137.5°	404.4	405.4	406.4	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3
140°	417.2	417.9	418.6	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3
142.5°	428.2	428.7	429.4	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5
145°	444.7	444.6	444.5	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1
147.5°	459.5	459.1	458.9	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7
150°	469.0	468.3	467.8	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0
152.5°	477.2	476.4	475.8	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6
155°	489.0	488.2	487.5	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0
157.5°	498.5	497.8	497.2	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6
160°	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6
162.5°	509.0	508.5	508.0	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3
165°	515.6	515.1	514.5	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1
167.5°	520.4	520.0	519.4	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9
170°	523.2	522.6	522.2	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3
172.5°	525.0	524.5	524.0	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1
175°	527.3	526.6	526.1	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2
177.5°	527.8	527.3	526.8	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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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°	6.3	6.4	6.4	6.5	6.5	6.5	6.3
90°	8.9	9.3	9.6	9.8	10.0	10.2	10.3
92.5°	9.5	9.7	9.9	10.0	10.1	10.2	10.3
95°	16.1	16.6	16.8	16.7	16.6	16.5	16.4
97.5°	21.0	21.2	21.5	21.6	21.7	21.8	21.8
100°	23.7	24.4	24.9	25.1	25.2	25.3	25.5
102.5°	25.0	25.9	26.4	26.7	26.9	27.1	27.4
105°	26.0	27.0	27.6	27.9	28.3	28.6	29.0
107.5°	29.7	28.7	28.4	28.8	29.2	29.4	29.8
110°	41.3	32.8	28.7	29.1	29.4	29.8	30.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	75.5	44.7	29.3	29.6	29.9	30.1	30.4
115°	117.5	78.3	55.6	49.6	43.4	37.4	31.2
117.5°	232.0	222.5	207.8	187.7	167.6	147.7	127.6
120°	282.4	283.5	278.2	266.8	255.4	243.9	232.5
122.5°	299.2	299.8	299.0	296.8	294.5	292.3	290.1
125°	323.9	324.4	324.9	325.1	325.4	325.7	325.8
127.5°	346.9	347.8	348.2	348.3	348.3	348.4	348.4
130°	361.4	362.4	362.8	362.7	362.7	362.6	362.5
132.5°	375.3	376.1	376.5	376.4	376.3	376.3	376.2
135°	395.5	396.4	396.6	396.5	396.4	396.2	396.0
137.5°	414.1	414.9	415.2	414.9	414.6	414.4	414.0
140°	426.1	426.9	427.0	426.6	426.1	425.8	425.3
142.5°	437.2	437.9	438.0	437.6	437.2	436.8	436.3
145°	452.6	453.3	453.3	452.9	452.5	452.1	451.7
147.5°	466.1	466.5	466.5	466.2	465.8	465.5	465.1
150°	474.5	475.0	475.1	474.7	474.2	473.8	473.4
152.5°	482.1	482.7	482.6	482.1	481.5	480.9	480.4
155°	492.4	492.9	492.8	492.1	491.5	490.8	490.2
157.5°	501.1	501.8	501.7	501.1	500.3	499.7	499.1
160°	506.1	506.7	506.6	506.0	505.4	504.8	504.3
162.5°	511.0	511.5	511.4	510.7	510.0	509.3	508.5
165°	516.7	517.3	517.3	516.7	516.1	515.5	514.9
167.5°	521.5	522.1	522.0	521.2	520.5	519.7	519.0
170°	524.0	524.5	524.4	523.7	522.9	522.2	521.4
172.5°	525.8	526.4	526.3	525.5	524.8	524.0	523.3
175°	527.7	528.3	528.2	527.4	526.6	525.7	524.9
177.5°	527.8	528.3	528.2	527.6	527.0	526.4	525.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)