

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: P331785-840

Luminaire Tested: **S122RDIW-S485D435U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331785-840
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-S485D435U840-4F0-1E-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: 3625.3 lumens
Efficiency: N/A
Efficacy: 120.0 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

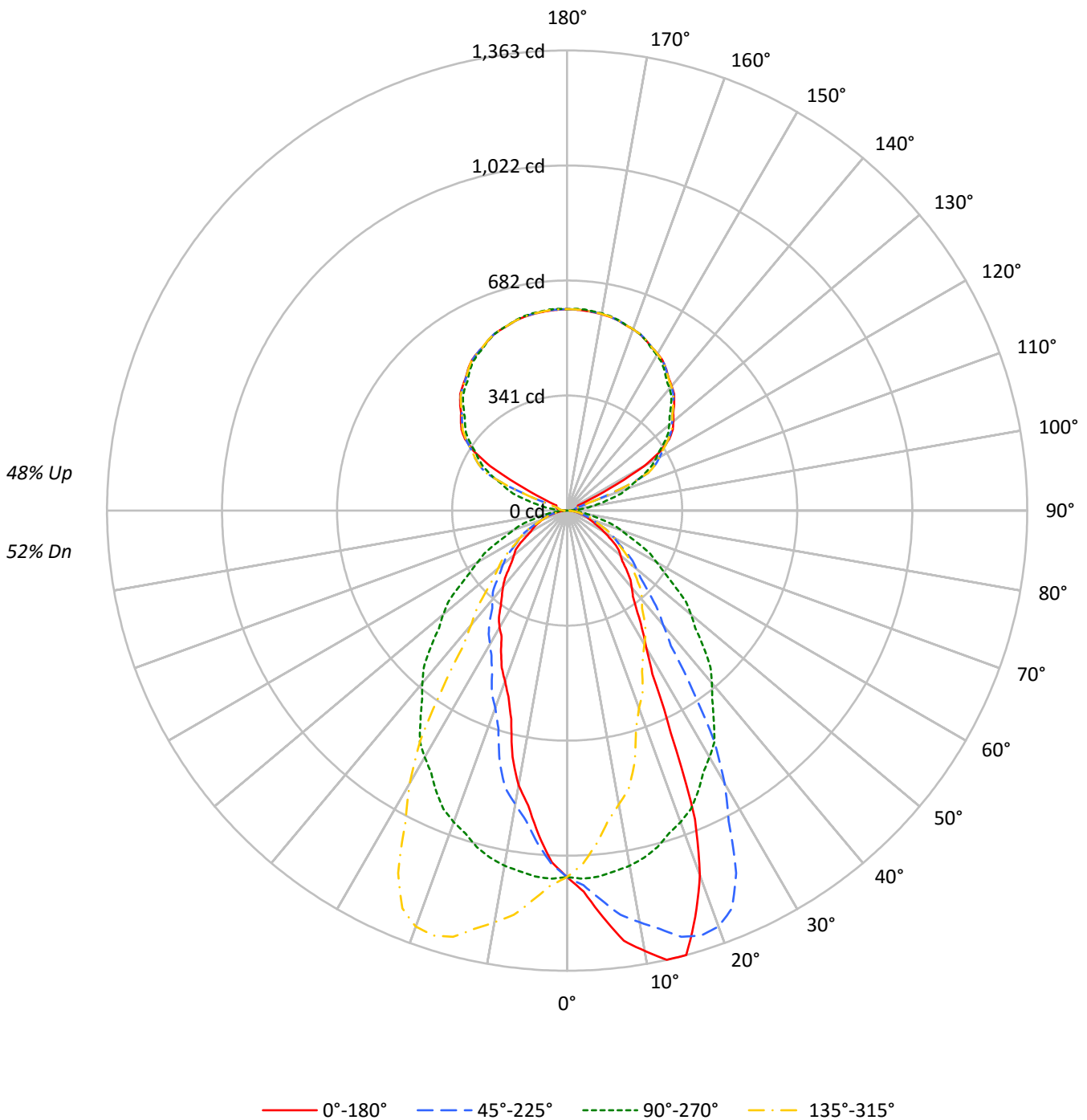
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	2.8
10°-20°	286.7	7.9
20°-30°	369.4	10.2
30°-40°	351.1	9.7
40°-50°	300.7	8.3
50°-60°	229.0	6.3
60°-70°	144.8	4.0
70°-80°	72.3	2.0
80°-90°	20.3	0.6
90°-100°	19.9	0.5
100°-110°	73.0	2.0
110°-120°	195.0	5.4
120°-130°	322.0	8.9
130°-140°	342.4	9.4
140°-150°	318.3	8.8
150°-160°	255.9	7.1
160°-170°	164.9	4.5
170°-180°	56.8	1.6
0°-30°	759.0	20.9
0°-40°	1110.1	30.6
0°-60°	1639.8	45.2
0°-90°	1877.2	51.8
90°-120°	287.9	7.9
90°-150°	1270.6	35.0
90°-180°	1748.0	48.2
0°-180°	3625.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	15
90°	12	0	12	0	12	6
95°	19	28	19	28	19	17
105°	33	131	33	131	33	34
115°	35	248	35	248	35	89
125°	369	351	369	351	369	319
135°	448	434	448	434	448	346
145°	512	504	512	504	512	320
155°	555	555	555	555	555	256
165°	583	584	583	584	583	165
175°	594	598	594	598	594	57
180°	596	596	596	596	596	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	7.2	7.4	7.4	7.4	7.3	7.3	7.2	7.4	7.0	7.2	6.7
90°	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6	9.1	8.6	7.9
92.5°	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5	10.3	10.0	9.6
95°	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8	17.3	16.9	16.2
97.5°	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3	22.9	22.5	21.0
100°	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2	25.3	24.6	22.9
102.5°	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3	26.3	25.2	39.0
105°	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5	27.4	26.4	52.5
107.5°	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7	35.7	36.9	68.3
110°	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4	65.9	75.5	103.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6	155.5	190.6	197.3
115°	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5	221.9	266.3	263.9
117.5°	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5	284.3	295.0	293.4
120°	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7	317.5	316.4	314.7
122.5°	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1	337.5	336.8	334.9
125°	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1	365.4	364.8	362.9
127.5°	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9	390.9	389.9	388.6
130°	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3	407.2	406.2	405.2
132.5°	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2	423.3	422.4	421.3
135°	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0	446.0	445.0	444.1
137.5°	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1	467.1	466.2	465.1
140°	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7	480.8	480.0	478.9
142.5°	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3	493.5	492.7	491.5
145°	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0	511.3	510.6	509.0
147.5°	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4	526.8	526.3	524.7
150°	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8	536.2	535.6	534.1
152.5°	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4	544.8	544.3	542.8
155°	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1	556.5	555.9	554.8
157.5°	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9	566.2	565.6	564.8
160°	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6	572.1	571.5	570.9
162.5°	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9	577.3	576.6	576.1
165°	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5	583.8	583.1	582.9
167.5°	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0	589.3	588.5	588.3
170°	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7	592.0	591.4	591.2
172.5°	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7	594.1	593.4	593.2
175°	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0	596.3	595.6	595.4
177.5°	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2	596.7	596.1	596.1
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	6.6	6.7	6.6	6.1	6.2	6.3	7.6	8.8	7.9	7.2	6.8
90°	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7	8.6	8.5	8.4
95°	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1	24.8	21.7	18.6
97.5°	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6	46.8	37.9	28.9
100°	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4	63.2	50.1	37.0
102.5°	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2	96.4	93.6	90.9
105°	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2	134.1	136.9	139.9
107.5°	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7	170.1	172.4	174.7
110°	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2	193.2	195.2	197.2



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3	215.1	216.9	218.6
115°	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2	249.8	251.5	253.1
117.5°	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3	281.1	283.0	284.8
120°	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2	303.6	305.0	306.5
122.5°	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4	323.0	324.5	326.0
125°	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9	352.1	353.5	354.7
127.5°	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6	379.0	380.3	381.7
130°	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6	396.1	397.6	399.1
132.5°	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8	413.0	414.3	415.7
135°	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2	435.8	437.3	438.8
137.5°	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0	458.0	459.1	460.2
140°	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8	472.5	473.3	474.0
142.5°	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2	484.9	485.5	486.3
145°	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7	503.6	503.5	503.4
147.5°	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7	520.4	520.0	519.7
150°	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8	531.1	530.4	529.8
152.5°	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1	540.4	539.6	538.9
155°	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6	553.8	552.9	552.1
157.5°	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2	564.5	563.8	563.1
160°	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	570.9	570.4	569.8
162.5°	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0	576.4	575.8	575.3
165°	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4	583.9	583.3	582.7
167.5°	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0	589.4	588.9	588.2
170°	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1	592.5	591.9	591.4
172.5°	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1	594.6	594.0	593.4
175°	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8	597.1	596.4	595.8
177.5°	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2	597.7	597.1	596.6
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	6.7	6.6	6.1	6.3	6.4	6.3	6.4	6.2	6.3	6.4	6.1
90°	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6	10.1	10.5	10.9
92.5°	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5	10.8	11.0	11.2
95°	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8	18.3	18.8	19.0
97.5°	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3	23.7	24.0	24.3
100°	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2	26.9	27.7	28.2
102.5°	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3	28.3	29.3	29.9
105°	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5	29.5	30.6	31.3
107.5°	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7	33.6	32.5	32.2
110°	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4	46.8	37.2	32.5



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6	85.5	50.6	33.2
115°	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5	133.1	88.7	63.0
117.5°	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5	262.8	252.0	235.3
120°	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7	319.8	321.0	315.1
122.5°	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1	338.8	339.5	338.6
125°	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1	366.8	367.4	367.9
127.5°	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9	392.8	393.8	394.4
130°	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3	409.3	410.4	410.9
132.5°	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2	425.1	426.0	426.4
135°	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0	447.9	448.9	449.2
137.5°	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1	469.0	469.9	470.2
140°	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7	482.6	483.4	483.6
142.5°	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3	495.1	495.9	496.0
145°	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0	512.6	513.3	513.4
147.5°	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4	527.9	528.4	528.4
150°	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8	537.3	538.0	538.1
152.5°	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4	546.0	546.6	546.5
155°	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1	557.6	558.3	558.2
157.5°	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9	567.5	568.3	568.2
160°	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6	573.2	573.8	573.7
162.5°	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9	578.7	579.3	579.2
165°	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5	585.1	585.8	585.8
167.5°	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0	590.6	591.3	591.2
170°	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7	593.4	594.0	593.9
172.5°	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7	595.4	596.1	596.0
175°	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0	597.6	598.3	598.2
177.5°	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2	597.7	598.3	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	6.2	5.9	6.3	6.0	6.3	5.9	6.2	6.1	6.4	6.3	6.2
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6
92.5°	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5
95°	18.9	18.8	18.7	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8
97.5°	24.4	24.5	24.6	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3
100°	28.4	28.6	28.7	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2
102.5°	30.2	30.5	30.7	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3
105°	31.6	32.0	32.4	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5
107.5°	32.6	33.0	33.3	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7
110°	32.9	33.3	33.7	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.5	33.8	34.1	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6
115°	56.1	49.2	42.3	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5
117.5°	212.6	189.9	167.2	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5
120°	302.2	289.2	276.2	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7
122.5°	336.1	333.6	331.0	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1
125°	368.2	368.5	368.8	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1
127.5°	394.5	394.5	394.6	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9
130°	410.8	410.7	410.6	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3
132.5°	426.3	426.2	426.2	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2
135°	449.1	448.9	448.7	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0
137.5°	469.9	469.6	469.3	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1
140°	483.1	482.6	482.2	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7
142.5°	495.5	495.1	494.6	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3
145°	512.9	512.4	512.0	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0
147.5°	528.0	527.6	527.1	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4
150°	537.6	537.0	536.5	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8
152.5°	545.9	545.3	544.6	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4
155°	557.3	556.6	555.8	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1
157.5°	567.4	566.6	565.9	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9
160°	573.1	572.4	571.7	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6
162.5°	578.3	577.5	576.7	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9
165°	585.1	584.5	583.8	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5
167.5°	590.3	589.5	588.5	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0
170°	593.1	592.2	591.4	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7
172.5°	595.1	594.3	593.4	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7
175°	597.2	596.3	595.3	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0
177.5°	597.5	596.8	596.1	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	6.4	6.3	6.4	6.3	6.1	6.6	6.7	6.8	7.2	7.9	8.8
90°	9.1	8.6	7.9	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4
92.5°	10.3	10.0	9.6	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7
95°	17.3	16.9	16.2	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1
97.5°	22.9	22.5	21.0	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6
100°	25.3	24.6	22.9	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4
102.5°	26.3	25.2	39.0	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2
105°	27.4	26.4	52.5	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2
107.5°	35.7	36.9	68.3	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7
110°	65.9	75.5	103.2	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	155.5	190.6	197.3	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3
115°	221.9	266.3	263.9	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2
117.5°	284.3	295.0	293.4	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3
120°	317.5	316.4	314.7	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2
122.5°	337.5	336.8	334.9	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4
125°	365.4	364.8	362.9	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9
127.5°	390.9	389.9	388.6	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6
130°	407.2	406.2	405.2	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6
132.5°	423.3	422.4	421.3	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8
135°	446.0	445.0	444.1	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2
137.5°	467.1	466.2	465.1	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0
140°	480.8	480.0	478.9	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8
142.5°	493.5	492.7	491.5	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2
145°	511.3	510.6	509.0	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7
147.5°	526.8	526.3	524.7	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7
150°	536.2	535.6	534.1	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8
152.5°	544.8	544.3	542.8	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1
155°	556.5	555.9	554.8	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6
157.5°	566.2	565.6	564.8	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2
160°	572.1	571.5	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5
162.5°	577.3	576.6	576.1	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0
165°	583.8	583.1	582.9	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4
167.5°	589.3	588.5	588.3	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0
170°	592.0	591.4	591.2	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1
172.5°	594.1	593.4	593.2	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1
175°	596.3	595.6	595.4	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8
177.5°	596.7	596.1	596.1	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	7.6	6.3	6.2	6.1	6.6	6.7	6.6	6.7	7.2	7.0	7.4
90°	1.5	2.5	3.6	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6
92.5°	8.6	8.5	8.4	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5
95°	24.8	21.7	18.6	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8
97.5°	46.8	37.9	28.9	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3
100°	63.2	50.1	37.0	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2
102.5°	96.4	93.6	90.9	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3
105°	134.1	136.9	139.9	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5
107.5°	170.1	172.4	174.7	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7
110°	193.2	195.2	197.2	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4



TEST NUMBER: P331785-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.1	216.9	218.6	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6
115°	249.8	251.5	253.1	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5
117.5°	281.1	283.0	284.8	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5
120°	303.6	305.0	306.5	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7
122.5°	323.0	324.5	326.0	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1
125°	352.1	353.5	354.7	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1
127.5°	379.0	380.3	381.7	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9
130°	396.1	397.6	399.1	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3
132.5°	413.0	414.3	415.7	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2
135°	435.8	437.3	438.8	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0
137.5°	458.0	459.1	460.2	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1
140°	472.5	473.3	474.0	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7
142.5°	484.9	485.5	486.3	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3
145°	503.6	503.5	503.4	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0
147.5°	520.4	520.0	519.7	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4
150°	531.1	530.4	529.8	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8
152.5°	540.4	539.6	538.9	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4
155°	553.8	552.9	552.1	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1
157.5°	564.5	563.8	563.1	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9
160°	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6
162.5°	576.4	575.8	575.3	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9
165°	583.9	583.3	582.7	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5
167.5°	589.4	588.9	588.2	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0
170°	592.5	591.9	591.4	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7
172.5°	594.6	594.0	593.4	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7
175°	597.1	596.4	595.8	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0
177.5°	597.7	597.1	596.6	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	7.2	7.3	7.3	7.4	7.4	7.4	7.2
90°	10.1	10.5	10.9	11.1	11.3	11.5	11.6
92.5°	10.8	11.0	11.2	11.3	11.4	11.5	11.6
95°	18.3	18.8	19.0	18.9	18.8	18.7	18.6
97.5°	23.7	24.0	24.3	24.4	24.5	24.6	24.7
100°	26.9	27.7	28.2	28.4	28.6	28.7	28.9
102.5°	28.3	29.3	29.9	30.2	30.5	30.7	31.0
105°	29.5	30.6	31.3	31.6	32.0	32.4	32.8
107.5°	33.6	32.5	32.2	32.6	33.0	33.3	33.7
110°	46.8	37.2	32.5	32.9	33.3	33.7	34.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	85.5	50.6	33.2	33.5	33.8	34.1	34.4
115°	133.1	88.7	63.0	56.1	49.2	42.3	35.3
117.5°	262.8	252.0	235.3	212.6	189.9	167.2	144.5
120°	319.8	321.0	315.1	302.2	289.2	276.2	263.3
122.5°	338.8	339.5	338.6	336.1	333.6	331.0	328.5
125°	366.8	367.4	367.9	368.2	368.5	368.8	369.0
127.5°	392.8	393.8	394.4	394.5	394.5	394.6	394.6
130°	409.3	410.4	410.9	410.8	410.7	410.6	410.5
132.5°	425.1	426.0	426.4	426.3	426.2	426.2	426.1
135°	447.9	448.9	449.2	449.1	448.9	448.7	448.5
137.5°	469.0	469.9	470.2	469.9	469.6	469.3	468.9
140°	482.6	483.4	483.6	483.1	482.6	482.2	481.7
142.5°	495.1	495.9	496.0	495.5	495.1	494.6	494.1
145°	512.6	513.3	513.4	512.9	512.4	512.0	511.5
147.5°	527.9	528.4	528.4	528.0	527.6	527.1	526.7
150°	537.3	538.0	538.1	537.6	537.0	536.5	536.1
152.5°	546.0	546.6	546.5	545.9	545.3	544.6	544.0
155°	557.6	558.3	558.2	557.3	556.6	555.8	555.1
157.5°	567.5	568.3	568.2	567.4	566.6	565.9	565.2
160°	573.2	573.8	573.7	573.1	572.4	571.7	571.1
162.5°	578.7	579.3	579.2	578.3	577.5	576.7	575.9
165°	585.1	585.8	585.8	585.1	584.5	583.8	583.1
167.5°	590.6	591.3	591.2	590.3	589.5	588.5	587.7
170°	593.4	594.0	593.9	593.1	592.2	591.4	590.5
172.5°	595.4	596.1	596.0	595.1	594.3	593.4	592.6
175°	597.6	598.3	598.2	597.2	596.3	595.3	594.4
177.5°	597.7	598.3	598.2	597.5	596.8	596.1	595.5
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5

(END OF REPORT)