

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: P331495-840

Luminaire Tested: **S122DIW-S485D435U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331495-840
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: S122DIW-S485D435U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3914.6 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

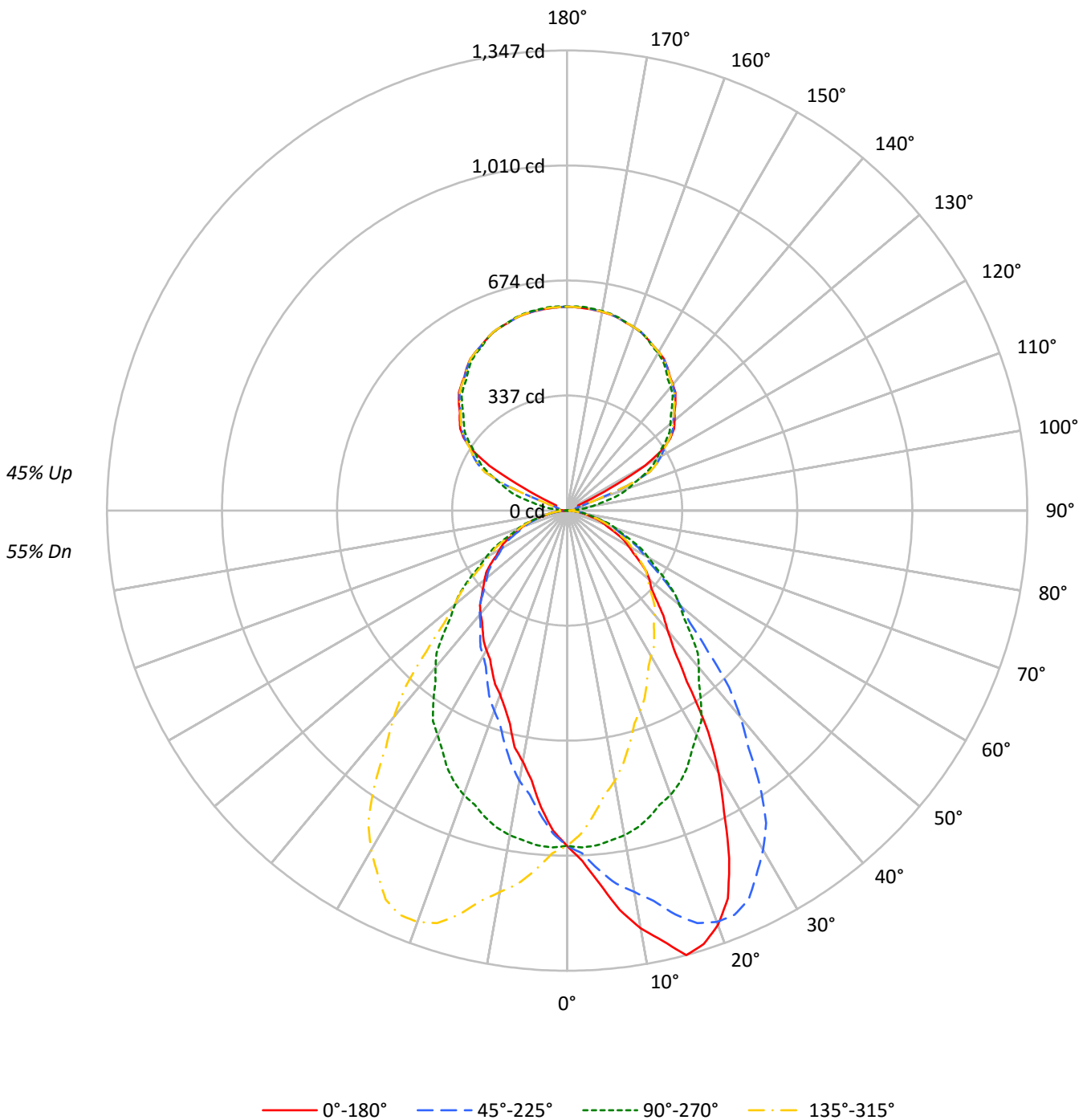
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	95	92	88	92	89	86	83	76	74	72	65	64	62	55	54	53	48
2	91	84	78	73	84	78	73	69	68	64	60	58	55	53	49	47	45	41
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	41	39	35
4	77	66	58	52	71	62	55	50	54	49	44	46	42	39	39	37	34	31
5	71	59	51	45	65	55	48	43	48	43	39	42	38	34	36	33	30	27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	27	24	21
8	56	44	36	31	52	42	35	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.4
10°-20°	271.7	6.9
20°-30°	394.3	10.1
30°-40°	416.1	10.6
40°-50°	368.4	9.4
50°-60°	294.0	7.5
60°-70°	199.8	5.1
70°-80°	102.5	2.6
80°-90°	26.2	0.7
90°-100°	19.9	0.5
100°-110°	73.0	1.9
110°-120°	195.0	5.0
120°-130°	322.0	8.2
130°-140°	342.4	8.7
140°-150°	318.3	8.1
150°-160°	255.9	6.5
160°-170°	164.9	4.2
170°-180°	56.8	1.4
0°-30°	759.5	19.4
0°-40°	1175.6	30.0
0°-60°	1838.0	47.0
0°-90°	2166.5	55.3
90°-120°	287.9	7.4
90°-150°	1270.6	32.5
90°-180°	1748.0	44.7
0°-180°	3914.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
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°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	10.2	10.1	10.4	10.1	10.0	10.3	10.2	9.8	10.0	10.2	10.3
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°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	10.5	10.3	10.2	10.6	9.5	9.3	7.9	6.8	6.7	6.6	6.2
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: P331495-840

CATALOG NUMBER: S122DIW-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: P331495-840

CATALOG NUMBER: S122DIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	6.1	6.0	5.8	6.0	5.8	5.7	5.5	5.6	5.7	5.2	5.2
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: P331495-840

CATALOG NUMBER: S122DIW-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: P331495-840

CATALOG NUMBER: S122DIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	5.3	4.9	5.0	4.7	5.0	4.9	5.3	5.2	5.2	5.7	5.6
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: P331495-840

CATALOG NUMBER: S122DIW-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: P331495-840

CATALOG NUMBER: S122DIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	5.5	5.7	5.8	6.0	5.8	6.0	6.1	6.2	6.6	6.7	6.8
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: P331495-840

CATALOG NUMBER: S122DIW-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: P331495-840

CATALOG NUMBER: S122DIW-S485D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	7.9	9.3	9.5	10.6	10.2	10.3	10.5	10.3	10.2	10.0	9.8
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: P331495-840

CATALOG NUMBER: S122DIW-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°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	10.2	10.3	10.0	10.1	10.4	10.1	10.2
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)