

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: P331295-840

Luminaire Tested: **SA2XXDIP-C485D530U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331295-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

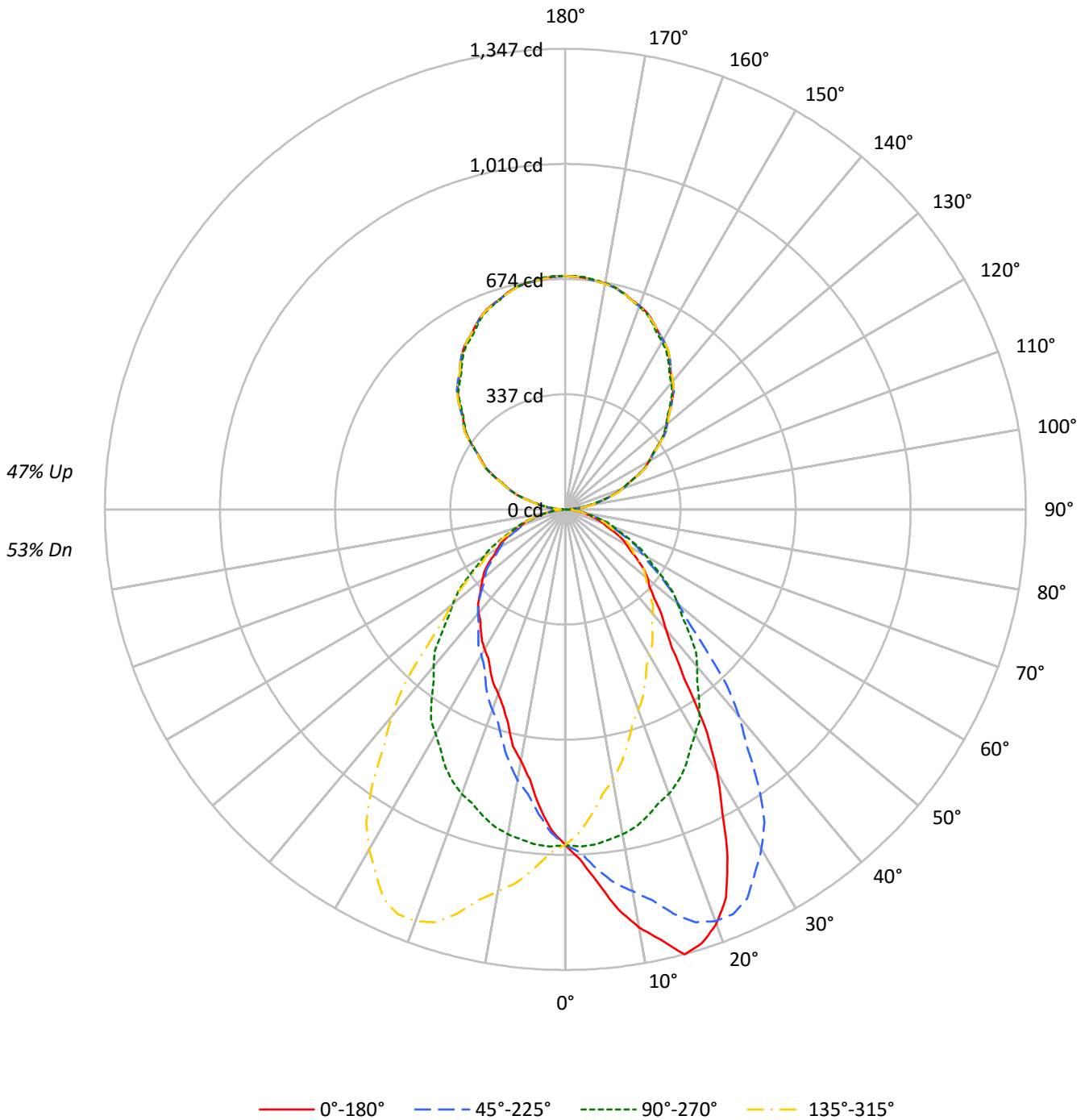
Lumens per Lamp: N/A
Luminaire Lumens: 4075.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
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	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

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	2.3
10°-20°	271.7	6.7
20°-30°	394.3	9.7
30°-40°	416.1	10.2
40°-50°	368.4	9.0
50°-60°	294.0	7.2
60°-70°	199.8	4.9
70°-80°	102.5	2.5
80°-90°	27.4	0.7
90°-100°	43.3	1.1
100°-110°	134.3	3.3
110°-120°	229.6	5.6
120°-130°	301.9	7.4
130°-140°	338.8	8.3
140°-150°	332.2	8.2
150°-160°	278.7	6.8
160°-170°	184.8	4.5
170°-180°	64.6	1.6
0°-30°	759.5	18.6
0°-40°	1175.6	28.8
0°-60°	1838.0	45.1
0°-90°	2167.7	53.2
90°-120°	407.1	10.0
90°-150°	1380.1	33.9
90°-180°	1908.0	46.8
0°-180°	4075.9	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°	20	1	20	1	20	10
95°	36	30	36	30	36	40
105°	128	124	128	124	128	134
115°	230	230	230	230	230	227
125°	336	335	336	335	336	300
135°	439	434	439	434	439	338
145°	532	526	532	526	532	332
155°	606	602	606	602	606	279
165°	655	655	655	655	655	185
175°	679	681	679	681	679	65
180°	682	682	682	682	682	



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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°	11.7	11.7	12.0	11.7	11.6	12.0	12.0	11.8	12.1	12.5	12.2
90°	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7	19.9	20.2	17.4
92.5°	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4	18.4	18.3	17.7
95°	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.6
97.5°	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	61.5
100°	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.1
102.5°	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6	98.5	98.4	97.9
105°	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2	126.9	126.7	126.4
107.5°	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.9
110°	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0	179.0	179.0	179.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2	200.5	200.8	200.9
115°	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4	232.6	232.7	232.9
117.5°	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6	263.9	264.2	264.9
120°	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5	284.5	284.5	285.5
122.5°	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	307.3
125°	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8	338.2	338.6	339.0
127.5°	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8	369.2	369.7	370.2
130°	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9	390.2	390.4	390.7
132.5°	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5	411.1	411.6	411.6
135°	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9	441.0	441.1	440.9
137.5°	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9	470.0	470.1	469.8
140°	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5	489.5	489.5	488.9
142.5°	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2	507.1	507.0	506.5
145°	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1	533.9	533.8	533.1
147.5°	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6	557.3	557.1	556.5
150°	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6	572.2	571.9	571.3
152.5°	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5	587.0	586.6	585.9
155°	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5	605.9	605.2	604.8
157.5°	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0	623.2	622.3	622.1
160°	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4	633.7	632.9	632.8
162.5°	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8	643.0	642.1	642.0
165°	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0	655.1	654.2	654.2
167.5°	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0	665.1	664.2	664.2
170°	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6	670.7	669.7	669.8
172.5°	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7	674.8	673.9	674.0
175°	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1	679.2	678.3	678.6
177.5°	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3	681.7	681.1	681.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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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°	11.9	11.4	10.8	11.0	9.8	9.5	8.0	6.8	6.8	6.8	6.5
90°	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6	2.1	3.6	5.2
92.5°	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3	11.4	12.5	13.6
95°	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0	31.2	32.5	33.8
97.5°	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7	55.8	57.0	58.1
100°	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1	74.1	75.1	76.2
102.5°	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5	93.3	94.1	94.9
105°	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8	124.2	124.6	124.9
107.5°	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4	155.9	156.5	157.0
110°	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6	176.4	177.1	177.9



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7	198.5	199.2	200.1
115°	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4	231.2	231.9	232.7
117.5°	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9	263.9	264.9	265.9
120°	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	285.5	286.5	287.5
122.5°	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3	305.5	306.8	308.0
125°	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2	336.3	337.5	338.6
127.5°	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2	366.7	368.1	369.6
130°	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2	385.8	387.4	389.1
132.5°	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3	406.7	408.0	409.4
135°	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6	435.0	436.5	437.9
137.5°	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4	464.6	465.7	467.0
140°	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4	482.6	483.7	484.8
142.5°	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9	501.0	502.2	503.3
145°	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3	527.3	528.2	529.1
147.5°	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0	551.0	552.1	553.2
150°	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1	566.8	567.6	568.4
152.5°	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4	581.2	581.9	582.7
155°	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8	602.2	602.6	602.9
157.5°	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1	620.4	620.6	620.9
160°	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2	631.4	631.7	631.9
162.5°	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3	641.4	641.4	641.5
165°	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8	654.6	654.5	654.4
167.5°	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0	665.7	665.3	664.9
170°	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1	671.7	671.3	670.9
172.5°	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2	675.8	675.4	675.0
175°	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3	680.9	680.4	680.1
177.5°	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4	683.0	682.7	682.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

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°	6.5	6.6	6.9	7.5	7.7	8.0	7.6	7.6	7.5	6.9	6.9
90°	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7	19.4	19.1	19.1
92.5°	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4	18.5	18.5	18.6
95°	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9	36.8
97.5°	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0	62.0	62.0	61.9
100°	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5	79.5	79.5	79.4
102.5°	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6	98.7	98.8	98.8
105°	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2	127.4	127.7	127.8
107.5°	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1	158.2	158.3	158.0
110°	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	178.9



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2	199.9	199.5	199.2
115°	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4	232.3	232.2	231.9
117.5°	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6	263.3	263.0	262.7
120°	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5	284.5	284.5	284.3
122.5°	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0	305.7	305.4	305.1
125°	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8	337.5	337.1	336.8
127.5°	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8	368.3	367.9	367.4
130°	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9	389.7	389.4	389.0
132.5°	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5	409.9	409.4	408.9
135°	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9	440.7	440.6	440.3
137.5°	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9	469.8	469.7	469.4
140°	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5	489.5	489.5	489.3
142.5°	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2	507.3	507.4	507.2
145°	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1	534.2	534.3	534.1
147.5°	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6	558.0	558.3	558.2
150°	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6	573.0	573.4	573.4
152.5°	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5	588.0	588.5	588.5
155°	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5	607.1	607.8	607.9
157.5°	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0	624.9	625.8	625.9
160°	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4	635.2	635.9	636.1
162.5°	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8	644.7	645.6	645.7
165°	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0	656.9	657.7	657.9
167.5°	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0	666.9	667.8	667.9
170°	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6	672.5	673.3	673.4
172.5°	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7	676.6	677.4	677.5
175°	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1	681.1	682.0	682.1
177.5°	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3	682.9	683.5	683.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

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°	6.9	6.6	6.6	6.4	6.6	6.6	6.9	6.9	6.9	7.5	7.6
90°	19.2	19.3	19.5	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7
92.5°	18.6	18.6	18.7	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4
95°	36.5	36.3	36.0	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9
97.5°	61.9	61.9	61.9	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0
100°	79.3	79.2	79.1	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5
102.5°	98.7	98.5	98.4	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6
105°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2
107.5°	157.4	156.9	156.3	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1
110°	178.5	178.1	177.7	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	198.6	198.3	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2
115°	231.5	231.2	230.8	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4
117.5°	262.3	261.9	261.5	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6
120°	283.9	283.6	283.2	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5
122.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0
125°	336.7	336.6	336.4	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8
127.5°	367.0	366.6	366.2	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8
130°	388.5	388.0	387.5	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9
132.5°	408.5	408.1	407.7	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5
135°	440.0	439.6	439.2	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9
137.5°	468.9	468.4	467.9	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9
140°	488.7	488.2	487.7	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5
142.5°	506.6	506.1	505.6	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2
145°	533.6	533.1	532.6	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1
147.5°	557.6	557.1	556.6	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6
150°	573.0	572.6	572.2	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6
152.5°	588.0	587.5	587.0	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5
155°	607.5	607.1	606.7	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5
157.5°	625.3	624.7	624.1	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0
160°	635.6	635.1	634.5	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4
162.5°	645.1	644.5	643.9	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8
165°	657.2	656.6	656.0	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0
167.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0
170°	672.6	671.9	671.1	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6
172.5°	676.8	676.0	675.2	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7
175°	681.3	680.4	679.7	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1
177.5°	682.9	682.3	681.7	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

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°	7.6	8.0	7.7	7.5	6.9	6.6	6.5	6.5	6.8	6.8	6.8
90°	19.9	20.2	17.4	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6
92.5°	18.4	18.3	17.7	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3
95°	36.9	36.9	36.6	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0
97.5°	62.0	62.0	61.5	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7
100°	79.5	79.5	79.1	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1
102.5°	98.5	98.4	97.9	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5
105°	126.9	126.7	126.4	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8
107.5°	158.0	157.9	157.9	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4
110°	179.0	179.0	179.0	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.5	200.8	200.9	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7
115°	232.6	232.7	232.9	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4
117.5°	263.9	264.2	264.9	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9
120°	284.5	284.5	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5
122.5°	306.3	306.6	307.3	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3
125°	338.2	338.6	339.0	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2
127.5°	369.2	369.7	370.2	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2
130°	390.2	390.4	390.7	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2
132.5°	411.1	411.6	411.6	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3
135°	441.0	441.1	440.9	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6
137.5°	470.0	470.1	469.8	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4
140°	489.5	489.5	488.9	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4
142.5°	507.1	507.0	506.5	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9
145°	533.9	533.8	533.1	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3
147.5°	557.3	557.1	556.5	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0
150°	572.2	571.9	571.3	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1
152.5°	587.0	586.6	585.9	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4
155°	605.9	605.2	604.8	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8
157.5°	623.2	622.3	622.1	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1
160°	633.7	632.9	632.8	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2
162.5°	643.0	642.1	642.0	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3
165°	655.1	654.2	654.2	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8
167.5°	665.1	664.2	664.2	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0
170°	670.7	669.7	669.8	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1
172.5°	674.8	673.9	674.0	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2
175°	679.2	678.3	678.6	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3
177.5°	681.7	681.1	681.3	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

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°	8.0	9.5	9.8	11.0	10.8	11.4	11.9	12.2	12.5	12.1	11.8
90°	2.1	3.6	5.2	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7
92.5°	11.4	12.5	13.6	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4
95°	31.2	32.5	33.8	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9
97.5°	55.8	57.0	58.1	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0
100°	74.1	75.1	76.2	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5
102.5°	93.3	94.1	94.9	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6
105°	124.2	124.6	124.9	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2
107.5°	155.9	156.5	157.0	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1
110°	176.4	177.1	177.9	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0



TEST NUMBER: P331295-840

CATALOG NUMBER: SA2XXDIP-C485D530U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	199.2	200.1	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2
115°	231.2	231.9	232.7	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4
117.5°	263.9	264.9	265.9	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6
120°	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5
122.5°	305.5	306.8	308.0	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0
125°	336.3	337.5	338.6	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8
127.5°	366.7	368.1	369.6	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8
130°	385.8	387.4	389.1	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9
132.5°	406.7	408.0	409.4	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5
135°	435.0	436.5	437.9	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9
137.5°	464.6	465.7	467.0	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9
140°	482.6	483.7	484.8	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5
142.5°	501.0	502.2	503.3	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2
145°	527.3	528.2	529.1	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1
147.5°	551.0	552.1	553.2	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6
150°	566.8	567.6	568.4	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6
152.5°	581.2	581.9	582.7	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5
155°	602.2	602.6	602.9	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5
157.5°	620.4	620.6	620.9	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0
160°	631.4	631.7	631.9	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4
162.5°	641.4	641.4	641.5	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8
165°	654.6	654.5	654.4	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0
167.5°	665.7	665.3	664.9	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0
170°	671.7	671.3	670.9	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6
172.5°	675.8	675.4	675.0	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7
175°	680.9	680.4	680.1	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1
177.5°	683.0	682.7	682.4	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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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°	12.0	12.0	11.6	11.7	12.0	11.7	11.7
90°	19.4	19.1	19.1	19.2	19.3	19.5	19.6
92.5°	18.5	18.5	18.6	18.6	18.6	18.7	18.7
95°	36.9	36.9	36.8	36.5	36.3	36.0	35.7
97.5°	62.0	62.0	61.9	61.9	61.9	61.9	61.8
100°	79.5	79.5	79.4	79.3	79.2	79.1	78.9
102.5°	98.7	98.8	98.8	98.7	98.5	98.4	98.3
105°	127.4	127.7	127.8	127.8	127.8	127.8	127.8
107.5°	158.2	158.3	158.0	157.4	156.9	156.3	155.7
110°	179.0	179.0	178.9	178.5	178.1	177.7	177.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.5	199.2	198.9	198.6	198.3	198.1
115°	232.3	232.2	231.9	231.5	231.2	230.8	230.4
117.5°	263.3	263.0	262.7	262.3	261.9	261.5	261.1
120°	284.5	284.5	284.3	283.9	283.6	283.2	282.8
122.5°	305.7	305.4	305.1	304.8	304.5	304.3	304.0
125°	337.5	337.1	336.8	336.7	336.6	336.4	336.3
127.5°	368.3	367.9	367.4	367.0	366.6	366.2	365.8
130°	389.7	389.4	389.0	388.5	388.0	387.5	387.0
132.5°	409.9	409.4	408.9	408.5	408.1	407.7	407.3
135°	440.7	440.6	440.3	440.0	439.6	439.2	438.8
137.5°	469.8	469.7	469.4	468.9	468.4	467.9	467.4
140°	489.5	489.5	489.3	488.7	488.2	487.7	487.2
142.5°	507.3	507.4	507.2	506.6	506.1	505.6	505.1
145°	534.2	534.3	534.1	533.6	533.1	532.6	532.1
147.5°	558.0	558.3	558.2	557.6	557.1	556.6	556.1
150°	573.0	573.4	573.4	573.0	572.6	572.2	571.9
152.5°	588.0	588.5	588.5	588.0	587.5	587.0	586.6
155°	607.1	607.8	607.9	607.5	607.1	606.7	606.4
157.5°	624.9	625.8	625.9	625.3	624.7	624.1	623.4
160°	635.2	635.9	636.1	635.6	635.1	634.5	634.0
162.5°	644.7	645.6	645.7	645.1	644.5	643.9	643.3
165°	656.9	657.7	657.9	657.2	656.6	656.0	655.3
167.5°	666.9	667.8	667.9	667.2	666.6	665.9	665.2
170°	672.5	673.3	673.4	672.6	671.9	671.1	670.3
172.5°	676.6	677.4	677.5	676.8	676.0	675.2	674.5
175°	681.1	682.0	682.1	681.3	680.4	679.7	678.9
177.5°	682.9	683.5	683.5	682.9	682.3	681.7	681.1
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)