

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

Luminaire Tested: **SA2XXDIP-C485D530U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331295
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-C485D530U835-4F0-1E-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

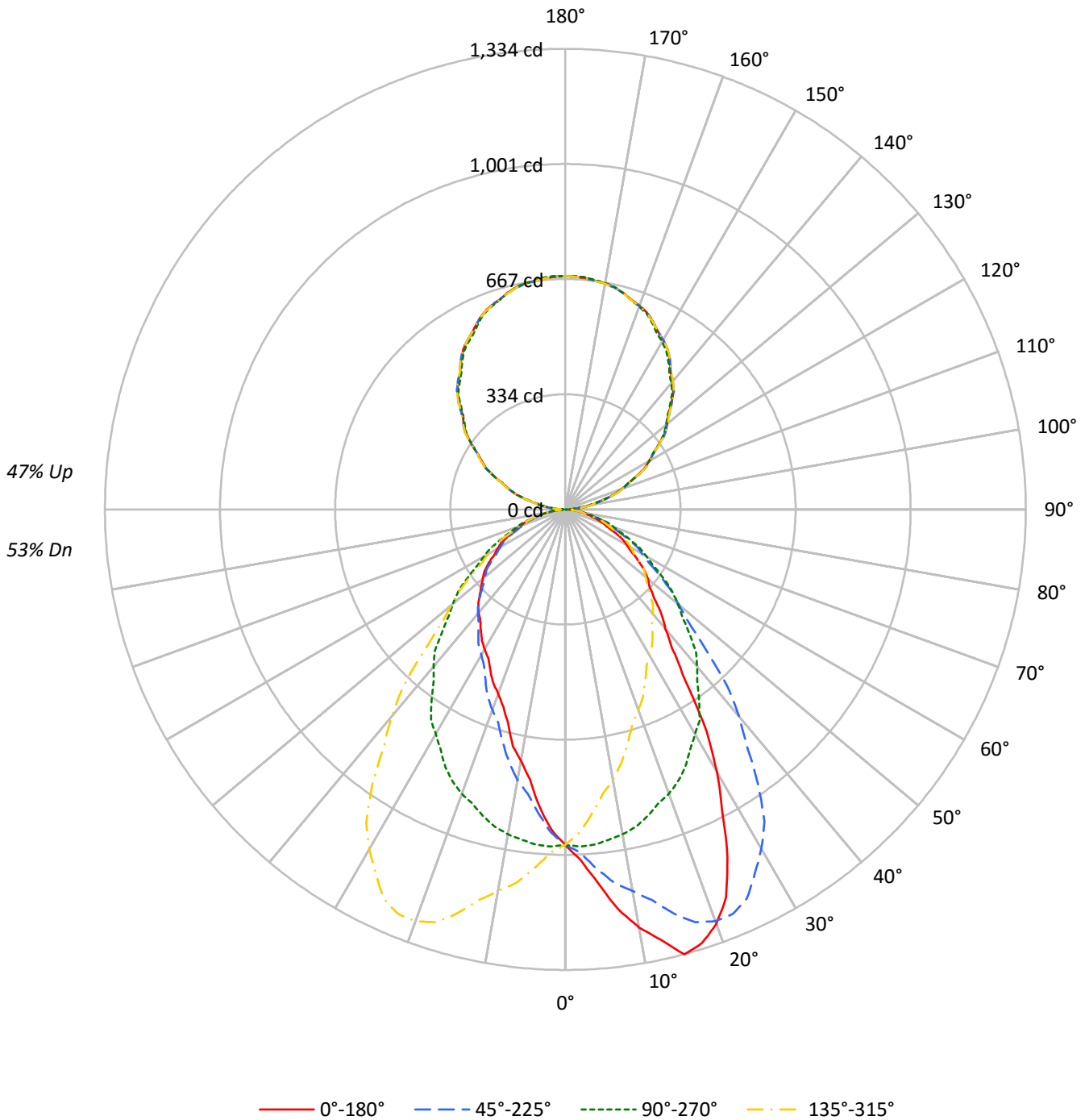
Lumens per Lamp: N/A
Luminaire Lumens: 4036.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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°	15689	15689	15689	15689
5°	17590	15793	13994	15793
10°	20156	15662	12111	15662
15°	22298	15375	10700	15375
20°	21959	15067	9754	15067
25°	19800	14656	9155	14656
30°	16362	14001	8718	14001
35°	11925	13316	8406	13316
40°	9525	12507	8233	12507
45°	8323	11572	7999	11572
50°	7824	10665	7842	10665
55°	7212	9745	7631	9745
60°	6610	8767	7308	8767
65°	6021	7889	6991	7889
70°	5467	7034	6524	7034
75°	4847	6082	5777	6082
80°	4166	5040	4649	5040
85°	3742	3742	2760	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.3
10°-20°	269.0	6.7
20°-30°	390.5	9.7
30°-40°	412.0	10.2
40°-50°	364.8	9.0
50°-60°	291.1	7.2
60°-70°	197.9	4.9
70°-80°	101.5	2.5
80°-90°	27.2	0.7
90°-100°	42.8	1.1
100°-110°	133.0	3.3
110°-120°	227.3	5.6
120°-130°	298.9	7.4
130°-140°	335.5	8.3
140°-150°	329.0	8.2
150°-160°	275.9	6.8
160°-170°	183.0	4.5
170°-180°	64.0	1.6
0°-30°	752.0	18.6
0°-40°	1164.1	28.8
0°-60°	1820.1	45.1
0°-90°	2146.6	53.2
90°-120°	403.1	10.0
90°-150°	1366.6	33.9
90°-180°	1889.0	46.8
0°-180°	4036.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	1085	974	863	974	1085	108
15°	1334	920	640	920	1334	368
25°	1111	823	514	823	1111	502
35°	605	676	426	676	605	393
45°	364	507	350	507	364	287
55°	256	346	271	346	256	230
65°	158	206	183	206	158	157
75°	78	98	93	98	78	83
85°	20	20	15	20	20	23
90°	19	1	19	1	19	9
95°	35	30	35	30	35	39
105°	127	123	127	123	127	133
115°	228	228	228	228	228	225
125°	333	332	333	332	333	297
135°	434	429	434	429	434	334
145°	527	521	527	521	527	329
155°	600	596	600	596	600	276
165°	649	648	649	648	649	183
175°	672	675	672	675	672	64
180°	676	676	676	676	676	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1016.6	1016.9	1017.4	1012.7	1012.1	1012.1	1007.9	1004.3	1000.1	994.4	995.0
5°	1085.3	1089.4	1090.9	1086.4	1079.7	1078.9	1072.6	1062.1	1052.4	1044.6	1039.0
7.5°	1167.3	1168.9	1165.3	1159.4	1154.4	1145.4	1133.6	1122.0	1105.8	1090.9	1079.9
10°	1229.4	1231.7	1225.3	1216.7	1209.6	1199.2	1182.0	1164.4	1143.2	1122.6	1106.2
12.5°	1276.6	1282.2	1274.0	1272.9	1260.7	1246.4	1225.9	1217.0	1187.1	1158.5	1140.8
15°	1334.0	1333.6	1334.4	1327.3	1318.3	1316.1	1294.4	1270.9	1228.7	1211.9	1182.7
17.5°	1317.4	1323.1	1325.7	1325.6	1325.4	1324.0	1317.0	1302.2	1281.0	1253.8	1220.2
20°	1278.0	1285.4	1286.6	1295.2	1300.0	1306.4	1309.0	1304.9	1291.8	1269.0	1239.9
22.5°	1217.0	1219.1	1222.6	1236.0	1246.5	1262.4	1270.7	1284.5	1279.5	1268.4	1244.1
25°	1111.4	1107.7	1120.7	1127.5	1151.7	1177.1	1195.4	1215.6	1233.5	1244.4	1237.3
27.5°	984.6	979.0	998.6	1016.4	1036.1	1063.6	1092.1	1125.8	1153.8	1188.9	1200.9
30°	877.6	881.0	899.7	918.7	948.6	987.4	1019.5	1056.5	1096.5	1135.7	1162.9
32.5°	762.3	775.2	787.0	816.2	842.5	885.8	932.9	979.1	1029.0	1073.5	1115.7
35°	605.0	619.9	636.4	657.7	694.6	737.6	783.5	845.9	913.9	974.7	1024.8
37.5°	509.2	506.9	516.3	531.7	561.6	596.3	649.1	710.8	790.8	862.3	932.9
40°	451.9	450.4	457.1	471.3	494.1	519.5	565.8	619.9	694.3	781.6	865.7
42.5°	412.4	413.3	417.1	427.1	442.7	463.6	498.3	544.4	612.4	694.7	785.0
45°	364.5	367.1	371.2	376.1	385.0	402.2	421.6	454.5	508.3	577.0	665.9
47.5°	330.0	330.1	334.2	338.5	343.8	353.5	369.4	390.0	427.9	483.9	560.3
50°	311.5	308.8	311.8	315.2	320.8	327.5	338.0	357.4	382.8	428.0	491.8
52.5°	288.8	288.8	291.5	292.8	297.8	304.5	314.1	327.5	350.5	385.9	438.4
55°	256.2	258.1	259.6	261.8	266.3	271.1	278.6	287.6	305.5	332.0	370.8
57.5°	225.6	226.2	227.7	231.9	234.8	239.2	246.3	254.5	266.1	285.8	315.0
60°	204.7	204.7	207.6	209.5	213.2	217.7	223.3	231.2	241.6	257.7	281.2
62.5°	185.5	185.2	186.4	189.5	192.3	196.5	202.1	208.8	218.6	232.9	252.2
65°	157.6	156.9	159.1	159.8	162.8	166.9	171.4	178.5	186.4	196.8	214.0
67.5°	130.7	131.6	132.8	134.2	135.9	140.2	143.2	148.2	154.8	163.5	175.2
70°	115.8	115.8	115.8	116.9	119.1	121.4	124.4	128.5	134.8	142.3	152.7
72.5°	99.0	100.2	101.4	100.8	103.6	104.9	108.5	110.8	116.9	121.7	130.9
75°	77.7	77.7	77.7	79.5	80.7	81.8	84.0	86.3	89.3	95.2	100.1
77.5°	58.0	57.8	58.2	58.6	59.8	61.2	61.8	63.9	66.6	69.4	73.5
80°	44.8	45.6	45.9	46.7	46.7	47.4	47.8	50.4	52.3	54.2	56.8
82.5°	34.7	34.8	34.9	35.0	35.3	35.8	36.7	37.6	38.2	39.8	41.8
85°	20.2	19.8	19.8	20.5	20.2	20.2	20.9	21.7	21.7	22.0	23.2
87.5°	11.6	11.6	11.9	11.6	11.5	11.9	11.9	11.7	12.0	12.4	12.1
90°	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5	19.7	20.0	17.2
92.5°	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2	18.2	18.1	17.5
95°	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5	36.5	36.5	36.2
97.5°	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	60.9
100°	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7	78.7	78.7	78.3
102.5°	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6	97.5	97.4	96.9
105°	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0	125.7	125.5	125.2
107.5°	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6	156.5	156.4	156.4
110°	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3	177.3	177.3	177.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2	198.5	198.8	198.9
115°	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1	230.3	230.4	230.6
117.5°	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0	261.3	261.6	262.3
120°	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7	281.7	281.7	282.7
122.5°	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0	303.3	303.6	304.3
125°	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5	334.9	335.3	335.7
127.5°	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2	365.6	366.1	366.6
130°	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1	386.4	386.6	386.9
132.5°	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5	407.1	407.6	407.6
135°	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6	436.7	436.8	436.6
137.5°	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3	465.4	465.5	465.2
140°	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7	484.7	484.7	484.1
142.5°	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2	502.1	502.0	501.6
145°	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9	528.7	528.6	527.9
147.5°	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2	551.9	551.7	551.1
150°	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0	566.6	566.3	565.7
152.5°	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8	581.3	580.9	580.2
155°	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6	600.0	599.3	598.9
157.5°	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9	617.1	616.2	616.0
160°	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2	627.5	626.7	626.6
162.5°	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5	636.7	635.8	635.7
165°	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6	648.7	647.8	647.8
167.5°	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5	658.6	657.7	657.7
170°	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0	664.1	663.2	663.3
172.5°	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1	668.2	667.3	667.4
175°	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5	672.6	671.7	672.0
177.5°	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6	675.0	674.4	674.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	997.1	994.7	993.2	987.9	983.1	978.3	976.8	977.4	970.8	964.6	961.9
5°	1036.0	1028.5	1021.4	1011.3	999.4	986.3	979.6	974.4	961.3	947.1	938.9
7.5°	1070.8	1060.1	1046.4	1027.5	1010.1	989.5	976.4	964.9	945.7	925.7	913.5
10°	1092.0	1077.4	1059.9	1036.7	1015.4	990.4	972.9	955.3	932.9	909.0	894.1
12.5°	1110.2	1090.6	1073.3	1043.6	1018.4	987.1	966.3	941.6	918.0	889.6	874.9
15°	1153.6	1117.4	1084.5	1050.9	1019.9	976.2	953.1	919.8	888.8	853.7	836.9
17.5°	1187.1	1146.4	1094.7	1052.0	1015.8	967.4	933.4	893.6	856.9	816.8	794.0
20°	1206.3	1159.6	1103.9	1053.2	1009.8	954.6	917.6	876.9	833.9	788.7	764.1
22.5°	1217.6	1168.6	1113.5	1048.7	997.9	944.1	897.6	853.0	809.4	760.7	734.8
25°	1221.2	1176.4	1118.1	1044.9	982.9	922.1	866.0	822.7	770.1	724.5	686.8
27.5°	1203.4	1171.3	1115.3	1037.9	965.7	894.5	832.1	783.0	727.4	678.0	640.0
30°	1181.6	1162.9	1108.4	1030.7	951.9	875.4	806.7	751.0	695.8	645.7	606.9
32.5°	1147.9	1143.8	1095.9	1020.6	937.3	851.2	780.1	723.8	662.6	613.4	576.4
35°	1081.5	1099.5	1069.2	997.9	909.7	816.8	739.8	675.6	612.1	565.0	530.3
37.5°	992.7	1037.2	1029.3	964.6	872.5	779.3	694.3	627.2	566.7	519.2	485.1
40°	931.4	988.2	996.4	939.2	846.3	750.3	660.3	593.4	534.4	491.1	456.7
42.5°	865.7	932.0	954.6	908.8	817.6	719.8	629.8	560.6	502.2	460.0	429.6
45°	755.5	843.3	884.0	857.8	769.7	669.6	577.0	506.8	453.8	414.2	390.6
47.5°	652.5	748.4	803.2	793.9	716.4	617.3	525.8	458.4	406.8	375.2	354.1
50°	579.6	678.2	744.3	747.3	678.2	580.0	488.1	424.6	377.2	347.7	330.5
52.5°	516.3	610.4	682.5	698.3	635.5	541.1	454.3	391.2	349.4	322.3	306.9
55°	433.6	513.1	593.1	622.2	571.8	482.1	401.8	346.2	307.0	288.3	274.9
57.5°	360.5	426.8	500.6	532.8	501.7	425.0	349.7	301.4	269.6	253.2	242.9
60°	321.9	374.2	439.9	478.4	451.5	383.2	317.4	271.5	245.4	230.8	221.1
62.5°	286.1	332.4	387.9	423.1	408.5	344.0	285.2	244.6	222.1	208.4	201.4
65°	236.0	272.6	315.6	348.1	338.4	289.4	241.3	206.5	188.6	177.8	172.2
67.5°	194.3	220.8	250.6	279.0	271.2	236.5	197.9	170.8	157.4	148.1	144.8
70°	168.1	188.2	214.7	237.5	231.2	202.8	172.2	149.0	137.4	129.6	126.2
72.5°	143.0	159.5	179.8	198.4	194.1	170.5	145.0	127.5	118.6	111.4	108.6
75°	107.9	120.6	133.0	145.3	144.2	125.9	110.9	97.5	90.4	84.8	83.7
77.5°	79.7	86.8	95.2	102.5	100.5	90.0	78.3	70.6	65.4	61.6	61.0
80°	60.9	65.0	71.0	76.2	73.6	69.1	59.8	54.2	50.4	46.7	45.2
82.5°	44.1	48.3	51.8	54.7	52.7	48.5	42.7	38.9	36.7	34.1	33.5
85°	23.2	25.4	26.9	27.6	26.9	24.3	21.7	20.2	18.3	17.2	16.8
87.5°	11.8	11.3	10.7	10.9	9.7	9.4	7.9	6.7	6.7	6.7	6.4
90°	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6	2.1	3.6	5.1
92.5°	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2	11.3	12.4	13.5
95°	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7	30.9	32.2	33.5
97.5°	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2	55.3	56.4	57.5
100°	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4	73.4	74.4	75.5
102.5°	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6	92.4	93.2	94.0
105°	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6	123.0	123.4	123.7
107.5°	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9	154.4	155.0	155.5
110°	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9	174.7	175.4	176.2



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8	196.6	197.3	198.1
115°	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1	228.9	229.6	230.4
117.5°	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3	261.3	262.3	263.3
120°	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	282.7	283.7	284.7
122.5°	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3	302.5	303.8	305.0
125°	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9	333.0	334.2	335.3
127.5°	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6	363.1	364.5	366.0
130°	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4	382.0	383.6	385.3
132.5°	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3	402.7	404.0	405.4
135°	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4	430.8	432.2	433.6
137.5°	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9	460.1	461.2	462.4
140°	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7	477.9	479.0	480.1
142.5°	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0	496.1	497.3	498.4
145°	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2	522.1	523.0	523.9
147.5°	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6	545.6	546.7	547.8
150°	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6	561.3	562.1	562.8
152.5°	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7	575.5	576.2	577.0
155°	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9	596.3	596.7	597.0
157.5°	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0	614.3	614.5	614.8
160°	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0	625.2	625.5	625.7
162.5°	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0	635.1	635.1	635.2
165°	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4	648.2	648.1	648.0
167.5°	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5	659.2	658.8	658.4
170°	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5	665.1	664.7	664.3
172.5°	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6	669.2	668.8	668.4
175°	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6	674.2	673.8	673.5
177.5°	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7	676.3	676.0	675.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	958.9	957.1	950.8	947.5	942.2	937.1	933.8	935.3	936.5	935.9	935.0
5°	931.4	924.3	913.5	904.1	897.4	885.1	879.9	877.3	875.0	872.4	869.8
7.5°	898.7	887.5	872.0	858.7	846.1	830.8	822.1	816.8	811.4	805.5	800.3
10°	875.4	859.7	843.3	824.6	809.7	795.8	783.5	775.3	767.8	760.7	755.5
12.5°	850.9	832.8	812.5	787.0	770.5	750.7	748.9	734.4	722.7	718.3	712.2
15°	811.9	786.5	760.7	730.5	717.4	699.5	688.3	677.1	667.0	659.9	658.0
17.5°	767.6	734.7	709.1	687.4	666.0	647.6	637.3	628.3	620.0	610.5	609.3
20°	733.8	705.5	677.5	658.4	636.4	617.7	605.0	596.0	588.9	583.3	578.5
22.5°	701.9	670.8	645.2	624.3	602.6	587.5	577.5	568.9	563.0	556.8	552.2
25°	650.6	626.3	598.3	574.8	556.8	547.1	538.9	531.4	527.7	523.6	518.4
27.5°	605.7	578.7	552.5	534.3	518.5	509.9	504.1	499.0	495.5	493.1	490.1
30°	574.0	546.7	526.2	508.3	495.2	486.6	482.9	479.9	475.8	474.3	472.8
32.5°	543.5	519.0	501.4	485.9	473.4	467.8	464.4	461.7	458.5	457.0	454.0
35°	500.4	479.9	462.7	454.1	444.0	439.2	436.6	432.8	429.9	428.4	428.0
37.5°	459.9	442.0	430.7	419.7	415.4	412.4	408.9	406.3	405.4	405.2	404.8
40°	433.6	419.0	408.9	400.0	398.1	393.6	390.6	388.4	388.4	388.8	388.4
42.5°	409.7	396.6	387.7	380.0	377.8	375.1	372.1	372.0	372.6	373.8	372.6
45°	373.5	364.1	357.8	354.0	349.9	347.3	346.9	348.1	348.4	348.8	349.9
47.5°	340.1	333.9	328.2	324.1	322.3	321.8	321.4	323.3	325.1	325.8	327.5
50°	320.4	313.3	308.5	305.9	304.4	303.6	304.4	306.6	308.1	310.0	311.1
52.5°	298.3	293.3	290.0	287.9	287.3	287.8	287.9	290.5	292.9	293.5	294.1
55°	267.8	264.0	263.3	259.9	261.4	261.0	262.9	264.4	266.6	268.9	269.3
57.5°	237.3	234.3	232.3	232.6	233.0	234.7	236.2	238.9	241.3	243.6	243.9
60°	217.0	215.5	214.4	214.4	215.1	217.4	219.2	221.8	223.3	224.8	225.9
62.5°	198.5	197.0	195.8	196.4	198.4	199.7	201.9	203.3	204.8	206.3	206.8
65°	169.2	168.4	169.6	170.3	170.7	172.5	175.2	176.3	177.8	178.5	181.1
67.5°	142.2	142.4	142.2	143.3	145.4	145.9	148.3	151.0	151.3	152.7	154.4
70°	124.0	124.7	125.5	126.2	128.1	128.8	130.7	131.8	133.3	134.4	135.6
72.5°	107.3	107.4	108.2	108.0	109.6	111.2	112.8	113.9	115.4	116.8	117.9
75°	82.5	82.5	83.3	83.7	85.5	87.4	87.0	87.8	89.3	90.8	91.5
77.5°	60.3	59.5	60.3	60.6	61.2	62.8	63.1	64.2	65.9	65.4	66.2
80°	45.9	44.8	45.9	46.3	46.3	48.2	48.2	48.9	50.0	48.9	50.0
82.5°	32.8	32.3	33.1	33.2	33.8	33.8	34.4	34.6	35.7	35.2	35.7
85°	16.4	16.1	16.4	16.1	16.4	16.8	16.8	16.4	16.4	17.2	16.1
87.5°	6.4	6.5	6.8	7.4	7.6	7.9	7.5	7.5	7.4	6.8	6.8
90°	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5	19.2	18.9	18.9
92.5°	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2	18.3	18.3	18.4
95°	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5	36.5	36.5	36.4
97.5°	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4	61.4	61.4	61.3
100°	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7	78.7	78.7	78.6
102.5°	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6	97.7	97.8	97.8
105°	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0	126.2	126.5	126.6
107.5°	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6	156.7	156.8	156.5
110°	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.2



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2	197.9	197.6	197.3
115°	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1	230.0	229.9	229.6
117.5°	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0	260.7	260.4	260.1
120°	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7	281.7	281.7	281.5
122.5°	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0	302.7	302.4	302.1
125°	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5	334.2	333.8	333.5
127.5°	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2	364.7	364.3	363.8
130°	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1	385.9	385.6	385.2
132.5°	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5	405.9	405.4	404.9
135°	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6	436.4	436.3	436.0
137.5°	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3	465.2	465.1	464.8
140°	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7	484.7	484.7	484.5
142.5°	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2	502.3	502.4	502.2
145°	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9	529.0	529.1	528.9
147.5°	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2	552.5	552.8	552.7
150°	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0	567.4	567.8	567.8
152.5°	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8	582.3	582.8	582.8
155°	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6	601.2	601.9	602.0
157.5°	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9	618.8	619.7	619.8
160°	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2	629.0	629.7	629.9
162.5°	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5	638.4	639.3	639.4
165°	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6	650.5	651.3	651.5
167.5°	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5	660.4	661.3	661.4
170°	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0	665.9	666.7	666.8
172.5°	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1	670.0	670.8	670.9
175°	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5	674.4	675.3	675.4
177.5°	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6	676.2	676.8	676.8
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331295
 CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	932.0	931.4	931.4	928.7	931.4	931.4	932.0	935.0	935.9	936.5	935.3
5°	864.6	863.4	861.6	863.4	861.6	863.4	864.6	869.8	872.4	875.0	877.3
7.5°	797.9	793.4	792.7	788.3	792.7	793.4	797.9	800.3	805.5	811.4	816.8
10°	749.2	746.2	745.8	738.7	745.8	746.2	749.2	755.5	760.7	767.8	775.3
12.5°	712.1	704.9	706.4	702.3	706.4	704.9	712.1	712.2	718.3	722.7	734.4
15°	647.9	647.9	646.5	640.1	646.5	647.9	647.9	658.0	659.9	667.0	677.1
17.5°	601.9	601.1	597.5	599.3	597.5	601.1	601.9	609.3	610.5	620.0	628.3
20°	574.4	572.1	567.7	567.7	567.7	572.1	574.4	578.5	583.3	588.9	596.0
22.5°	548.4	548.2	543.5	545.0	543.5	548.2	548.4	552.2	556.8	563.0	568.9
25°	518.0	515.0	512.8	513.9	512.8	515.0	518.0	518.4	523.6	527.7	531.4
27.5°	489.2	487.5	487.4	484.3	487.4	487.5	489.2	490.1	493.1	495.5	499.0
30°	472.4	468.7	469.4	467.6	469.4	468.7	472.4	472.8	474.3	475.8	479.9
32.5°	453.3	452.0	451.2	449.6	451.2	452.0	453.3	454.0	457.0	458.5	461.7
35°	427.2	427.6	425.7	426.5	425.7	427.6	427.2	428.0	428.4	429.9	432.8
37.5°	404.5	405.7	404.8	405.0	404.8	405.7	404.5	404.8	405.2	405.4	406.3
40°	389.5	389.5	389.5	390.6	389.5	389.5	389.5	388.4	388.8	388.4	388.4
42.5°	375.2	374.6	374.0	373.9	374.0	374.6	375.2	372.6	373.8	372.6	372.0
45°	350.7	351.8	352.2	350.3	352.2	351.8	350.7	349.9	348.8	348.4	348.1
47.5°	328.5	328.6	328.5	330.1	328.5	328.6	328.5	327.5	325.8	325.1	323.3
50°	313.0	312.2	313.0	312.2	313.0	312.2	313.0	311.1	310.0	308.1	306.6
52.5°	296.5	296.7	296.2	296.1	296.2	296.7	296.5	294.1	293.5	292.9	290.5
55°	270.8	271.5	271.1	271.1	271.1	271.5	270.8	269.3	268.9	266.6	264.4
57.5°	244.1	244.8	245.3	243.6	245.3	244.8	244.1	243.9	243.6	241.3	238.9
60°	225.6	227.4	227.1	226.3	227.1	227.4	225.6	225.9	224.8	223.3	221.8
62.5°	208.5	209.2	209.1	209.0	209.1	209.2	208.5	206.8	206.3	204.8	203.3
65°	182.2	183.0	181.9	183.0	181.9	183.0	182.2	181.1	178.5	177.8	176.3
67.5°	153.9	154.2	155.0	155.5	155.0	154.2	153.9	154.4	152.7	151.3	151.0
70°	136.3	135.9	137.1	138.2	137.1	135.9	136.3	135.6	134.4	133.3	131.8
72.5°	117.8	118.6	118.2	119.1	118.2	118.6	117.8	117.9	116.8	115.4	113.9
75°	90.8	91.9	91.5	92.6	91.5	91.9	90.8	91.5	90.8	89.3	87.8
77.5°	65.6	65.7	65.6	66.2	65.6	65.7	65.6	66.2	65.4	65.9	64.2
80°	50.0	49.3	48.5	50.0	48.5	49.3	50.0	50.0	48.9	50.0	48.9
82.5°	34.8	35.3	34.5	34.5	34.5	35.3	34.8	35.7	35.2	35.7	34.6
85°	16.1	15.7	14.9	14.9	14.9	15.7	16.1	16.1	17.2	16.4	16.4
87.5°	6.8	6.5	6.5	6.3	6.5	6.5	6.8	6.8	6.8	7.4	7.5
90°	19.0	19.1	19.3	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5
92.5°	18.4	18.4	18.5	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2
95°	36.1	35.9	35.6	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5
97.5°	61.3	61.3	61.3	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4
100°	78.5	78.4	78.3	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7
102.5°	97.7	97.5	97.4	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6
105°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0
107.5°	155.9	155.4	154.8	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6
110°	176.8	176.4	176.0	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	197.0	196.7	196.4	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2
115°	229.2	228.9	228.5	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1
117.5°	259.7	259.3	258.9	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0
120°	281.1	280.8	280.4	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7
122.5°	301.8	301.5	301.3	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0
125°	333.4	333.3	333.1	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5
127.5°	363.4	363.0	362.6	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2
130°	384.7	384.2	383.7	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1
132.5°	404.5	404.1	403.7	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5
135°	435.7	435.3	434.9	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6
137.5°	464.3	463.8	463.3	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3
140°	483.9	483.4	482.9	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7
142.5°	501.7	501.2	500.7	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2
145°	528.4	527.9	527.4	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9
147.5°	552.2	551.7	551.2	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2
150°	567.4	567.0	566.6	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0
152.5°	582.3	581.8	581.3	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8
155°	601.6	601.2	600.8	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6
157.5°	619.2	618.6	618.0	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9
160°	629.4	628.9	628.3	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2
162.5°	638.8	638.2	637.6	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5
165°	650.8	650.2	649.6	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6
167.5°	660.7	660.1	659.4	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5
170°	666.0	665.3	664.5	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0
172.5°	670.2	669.4	668.6	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1
175°	674.6	673.8	673.1	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5
177.5°	676.2	675.6	675.0	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	933.8	937.1	942.2	947.5	950.8	957.1	958.9	961.9	964.6	970.8	977.4
5°	879.9	885.1	897.4	904.1	913.5	924.3	931.4	938.9	947.1	961.3	974.4
7.5°	822.1	830.8	846.1	858.7	872.0	887.5	898.7	913.5	925.7	945.7	964.9
10°	783.5	795.8	809.7	824.6	843.3	859.7	875.4	894.1	909.0	932.9	955.3
12.5°	748.9	750.7	770.5	787.0	812.5	832.8	850.9	874.9	889.6	918.0	941.6
15°	688.3	699.5	717.4	730.5	760.7	786.5	811.9	836.9	853.7	888.8	919.8
17.5°	637.3	647.6	666.0	687.4	709.1	734.7	767.6	794.0	816.8	856.9	893.6
20°	605.0	617.7	636.4	658.4	677.5	705.5	733.8	764.1	788.7	833.9	876.9
22.5°	577.5	587.5	602.6	624.3	645.2	670.8	701.9	734.8	760.7	809.4	853.0
25°	538.9	547.1	556.8	574.8	598.3	626.3	650.6	686.8	724.5	770.1	822.7
27.5°	504.1	509.9	518.5	534.3	552.5	578.7	605.7	640.0	678.0	727.4	783.0
30°	482.9	486.6	495.2	508.3	526.2	546.7	574.0	606.9	645.7	695.8	751.0
32.5°	464.4	467.8	473.4	485.9	501.4	519.0	543.5	576.4	613.4	662.6	723.8
35°	436.6	439.2	444.0	454.1	462.7	479.9	500.4	530.3	565.0	612.1	675.6
37.5°	408.9	412.4	415.4	419.7	430.7	442.0	459.9	485.1	519.2	566.7	627.2
40°	390.6	393.6	398.1	400.0	408.9	419.0	433.6	456.7	491.1	534.4	593.4
42.5°	372.1	375.1	377.8	380.0	387.7	396.6	409.7	429.6	460.0	502.2	560.6
45°	346.9	347.3	349.9	354.0	357.8	364.1	373.5	390.6	414.2	453.8	506.8
47.5°	321.4	321.8	322.3	324.1	328.2	333.9	340.1	354.1	375.2	406.8	458.4
50°	304.4	303.6	304.4	305.9	308.5	313.3	320.4	330.5	347.7	377.2	424.6
52.5°	287.9	287.8	287.3	287.9	290.0	293.3	298.3	306.9	322.3	349.4	391.2
55°	262.9	261.0	261.4	259.9	263.3	264.0	267.8	274.9	288.3	307.0	346.2
57.5°	236.2	234.7	233.0	232.6	232.3	234.3	237.3	242.9	253.2	269.6	301.4
60°	219.2	217.4	215.1	214.4	214.4	215.5	217.0	221.1	230.8	245.4	271.5
62.5°	201.9	199.7	198.4	196.4	195.8	197.0	198.5	201.4	208.4	222.1	244.6
65°	175.2	172.5	170.7	170.3	169.6	168.4	169.2	172.2	177.8	188.6	206.5
67.5°	148.3	145.9	145.4	143.3	142.2	142.4	142.2	144.8	148.1	157.4	170.8
70°	130.7	128.8	128.1	126.2	125.5	124.7	124.0	126.2	129.6	137.4	149.0
72.5°	112.8	111.2	109.6	108.0	108.2	107.4	107.3	108.6	111.4	118.6	127.5
75°	87.0	87.4	85.5	83.7	83.3	82.5	82.5	83.7	84.8	90.4	97.5
77.5°	63.1	62.8	61.2	60.6	60.3	59.5	60.3	61.0	61.6	65.4	70.6
80°	48.2	48.2	46.3	46.3	45.9	44.8	45.9	45.2	46.7	50.4	54.2
82.5°	34.4	33.8	33.8	33.2	33.1	32.3	32.8	33.5	34.1	36.7	38.9
85°	16.8	16.8	16.4	16.1	16.4	16.1	16.4	16.8	17.2	18.3	20.2
87.5°	7.5	7.9	7.6	7.4	6.8	6.5	6.4	6.4	6.7	6.7	6.7
90°	19.7	20.0	17.2	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6
92.5°	18.2	18.1	17.5	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2
95°	36.5	36.5	36.2	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7
97.5°	61.4	61.4	60.9	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2
100°	78.7	78.7	78.3	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4
102.5°	97.5	97.4	96.9	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6
105°	125.7	125.5	125.2	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6
107.5°	156.5	156.4	156.4	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9
110°	177.3	177.3	177.3	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	198.5	198.8	198.9	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8
115°	230.3	230.4	230.6	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1
117.5°	261.3	261.6	262.3	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3
120°	281.7	281.7	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7
122.5°	303.3	303.6	304.3	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3
125°	334.9	335.3	335.7	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9
127.5°	365.6	366.1	366.6	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6
130°	386.4	386.6	386.9	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4
132.5°	407.1	407.6	407.6	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3
135°	436.7	436.8	436.6	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4
137.5°	465.4	465.5	465.2	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9
140°	484.7	484.7	484.1	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7
142.5°	502.1	502.0	501.6	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0
145°	528.7	528.6	527.9	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2
147.5°	551.9	551.7	551.1	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6
150°	566.6	566.3	565.7	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6
152.5°	581.3	580.9	580.2	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7
155°	600.0	599.3	598.9	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9
157.5°	617.1	616.2	616.0	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0
160°	627.5	626.7	626.6	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0
162.5°	636.7	635.8	635.7	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0
165°	648.7	647.8	647.8	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4
167.5°	658.6	657.7	657.7	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5
170°	664.1	663.2	663.3	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5
172.5°	668.2	667.3	667.4	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6
175°	672.6	671.7	672.0	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6
177.5°	675.0	674.4	674.6	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	976.8	978.3	983.1	987.9	993.2	994.7	997.1	995.0	994.4	1000.1	1004.3
5°	979.6	986.3	999.4	1011.3	1021.4	1028.5	1036.0	1039.0	1044.6	1052.4	1062.1
7.5°	976.4	989.5	1010.1	1027.5	1046.4	1060.1	1070.8	1079.9	1090.9	1105.8	1122.0
10°	972.9	990.4	1015.4	1036.7	1059.9	1077.4	1092.0	1106.2	1122.6	1143.2	1164.4
12.5°	966.3	987.1	1018.4	1043.6	1073.3	1090.6	1110.2	1140.8	1158.5	1187.1	1217.0
15°	953.1	976.2	1019.9	1050.9	1084.5	1117.4	1153.6	1182.7	1211.9	1228.7	1270.9
17.5°	933.4	967.4	1015.8	1052.0	1094.7	1146.4	1187.1	1220.2	1253.8	1281.0	1302.2
20°	917.6	954.6	1009.8	1053.2	1103.9	1159.6	1206.3	1239.9	1269.0	1291.8	1304.9
22.5°	897.6	944.1	997.9	1048.7	1113.5	1168.6	1217.6	1244.1	1268.4	1279.5	1284.5
25°	866.0	922.1	982.9	1044.9	1118.1	1176.4	1221.2	1237.3	1244.4	1233.5	1215.6
27.5°	832.1	894.5	965.7	1037.9	1115.3	1171.3	1203.4	1200.9	1188.9	1153.8	1125.8
30°	806.7	875.4	951.9	1030.7	1108.4	1162.9	1181.6	1162.9	1135.7	1096.5	1056.5
32.5°	780.1	851.2	937.3	1020.6	1095.9	1143.8	1147.9	1115.7	1073.5	1029.0	979.1
35°	739.8	816.8	909.7	997.9	1069.2	1099.5	1081.5	1024.8	974.7	913.9	845.9
37.5°	694.3	779.3	872.5	964.6	1029.3	1037.2	992.7	932.9	862.3	790.8	710.8
40°	660.3	750.3	846.3	939.2	996.4	988.2	931.4	865.7	781.6	694.3	619.9
42.5°	629.8	719.8	817.6	908.8	954.6	932.0	865.7	785.0	694.7	612.4	544.4
45°	577.0	669.6	769.7	857.8	884.0	843.3	755.5	665.9	577.0	508.3	454.5
47.5°	525.8	617.3	716.4	793.9	803.2	748.4	652.5	560.3	483.9	427.9	390.0
50°	488.1	580.0	678.2	747.3	744.3	678.2	579.6	491.8	428.0	382.8	357.4
52.5°	454.3	541.1	635.5	698.3	682.5	610.4	516.3	438.4	385.9	350.5	327.5
55°	401.8	482.1	571.8	622.2	593.1	513.1	433.6	370.8	332.0	305.5	287.6
57.5°	349.7	425.0	501.7	532.8	500.6	426.8	360.5	315.0	285.8	266.1	254.5
60°	317.4	383.2	451.5	478.4	439.9	374.2	321.9	281.2	257.7	241.6	231.2
62.5°	285.2	344.0	408.5	423.1	387.9	332.4	286.1	252.2	232.9	218.6	208.8
65°	241.3	289.4	338.4	348.1	315.6	272.6	236.0	214.0	196.8	186.4	178.5
67.5°	197.9	236.5	271.2	279.0	250.6	220.8	194.3	175.2	163.5	154.8	148.2
70°	172.2	202.8	231.2	237.5	214.7	188.2	168.1	152.7	142.3	134.8	128.5
72.5°	145.0	170.5	194.1	198.4	179.8	159.5	143.0	130.9	121.7	116.9	110.8
75°	110.9	125.9	144.2	145.3	133.0	120.6	107.9	100.1	95.2	89.3	86.3
77.5°	78.3	90.0	100.5	102.5	95.2	86.8	79.7	73.5	69.4	66.6	63.9
80°	59.8	69.1	73.6	76.2	71.0	65.0	60.9	56.8	54.2	52.3	50.4
82.5°	42.7	48.5	52.7	54.7	51.8	48.3	44.1	41.8	39.8	38.2	37.6
85°	21.7	24.3	26.9	27.6	26.9	25.4	23.2	23.2	22.0	21.7	21.7
87.5°	7.9	9.4	9.7	10.9	10.7	11.3	11.8	12.1	12.4	12.0	11.7
90°	2.1	3.6	5.1	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5
92.5°	11.3	12.4	13.5	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2
95°	30.9	32.2	33.5	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5
97.5°	55.3	56.4	57.5	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4
100°	73.4	74.4	75.5	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7
102.5°	92.4	93.2	94.0	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6
105°	123.0	123.4	123.7	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0
107.5°	154.4	155.0	155.5	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6
110°	174.7	175.4	176.2	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3



TEST NUMBER: P331295

CATALOG NUMBER: SA2XXDIP-C485D530U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.6	197.3	198.1	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2
115°	228.9	229.6	230.4	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1
117.5°	261.3	262.3	263.3	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0
120°	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7
122.5°	302.5	303.8	305.0	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0
125°	333.0	334.2	335.3	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5
127.5°	363.1	364.5	366.0	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2
130°	382.0	383.6	385.3	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1
132.5°	402.7	404.0	405.4	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5
135°	430.8	432.2	433.6	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6
137.5°	460.1	461.2	462.4	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3
140°	477.9	479.0	480.1	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7
142.5°	496.1	497.3	498.4	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2
145°	522.1	523.0	523.9	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9
147.5°	545.6	546.7	547.8	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2
150°	561.3	562.1	562.8	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0
152.5°	575.5	576.2	577.0	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8
155°	596.3	596.7	597.0	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6
157.5°	614.3	614.5	614.8	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9
160°	625.2	625.5	625.7	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2
162.5°	635.1	635.1	635.2	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5
165°	648.2	648.1	648.0	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6
167.5°	659.2	658.8	658.4	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5
170°	665.1	664.7	664.3	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0
172.5°	669.2	668.8	668.4	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1
175°	674.2	673.8	673.5	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5
177.5°	676.3	676.0	675.7	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1007.9	1012.1	1012.1	1012.7	1017.4	1016.9	1016.6
5°	1072.6	1078.9	1079.7	1086.4	1090.9	1089.4	1085.3
7.5°	1133.6	1145.4	1154.4	1159.4	1165.3	1168.9	1167.3
10°	1182.0	1199.2	1209.6	1216.7	1225.3	1231.7	1229.4
12.5°	1225.9	1246.4	1260.7	1272.9	1274.0	1282.2	1276.6
15°	1294.4	1316.1	1318.3	1327.3	1334.4	1333.6	1334.0
17.5°	1317.0	1324.0	1325.4	1325.6	1325.7	1323.1	1317.4
20°	1309.0	1306.4	1300.0	1295.2	1286.6	1285.4	1278.0
22.5°	1270.7	1262.4	1246.5	1236.0	1222.6	1219.1	1217.0
25°	1195.4	1177.1	1151.7	1127.5	1120.7	1107.7	1111.4
27.5°	1092.1	1063.6	1036.1	1016.4	998.6	979.0	984.6
30°	1019.5	987.4	948.6	918.7	899.7	881.0	877.6
32.5°	932.9	885.8	842.5	816.2	787.0	775.2	762.3
35°	783.5	737.6	694.6	657.7	636.4	619.9	605.0
37.5°	649.1	596.3	561.6	531.7	516.3	506.9	509.2
40°	565.8	519.5	494.1	471.3	457.1	450.4	451.9
42.5°	498.3	463.6	442.7	427.1	417.1	413.3	412.4
45°	421.6	402.2	385.0	376.1	371.2	367.1	364.5
47.5°	369.4	353.5	343.8	338.5	334.2	330.1	330.0
50°	338.0	327.5	320.8	315.2	311.8	308.8	311.5
52.5°	314.1	304.5	297.8	292.8	291.5	288.8	288.8
55°	278.6	271.1	266.3	261.8	259.6	258.1	256.2
57.5°	246.3	239.2	234.8	231.9	227.7	226.2	225.6
60°	223.3	217.7	213.2	209.5	207.6	204.7	204.7
62.5°	202.1	196.5	192.3	189.5	186.4	185.2	185.5
65°	171.4	166.9	162.8	159.8	159.1	156.9	157.6
67.5°	143.2	140.2	135.9	134.2	132.8	131.6	130.7
70°	124.4	121.4	119.1	116.9	115.8	115.8	115.8
72.5°	108.5	104.9	103.6	100.8	101.4	100.2	99.0
75°	84.0	81.8	80.7	79.5	77.7	77.7	77.7
77.5°	61.8	61.2	59.8	58.6	58.2	57.8	58.0
80°	47.8	47.4	46.7	46.7	45.9	45.6	44.8
82.5°	36.7	35.8	35.3	35.0	34.9	34.8	34.7
85°	20.9	20.2	20.2	20.5	19.8	19.8	20.2
87.5°	11.9	11.9	11.5	11.6	11.9	11.6	11.6
90°	19.2	18.9	18.9	19.0	19.1	19.3	19.4
92.5°	18.3	18.3	18.4	18.4	18.4	18.5	18.5
95°	36.5	36.5	36.4	36.1	35.9	35.6	35.4
97.5°	61.4	61.4	61.3	61.3	61.3	61.3	61.2
100°	78.7	78.7	78.6	78.5	78.4	78.3	78.1
102.5°	97.7	97.8	97.8	97.7	97.5	97.4	97.3
105°	126.2	126.5	126.6	126.6	126.6	126.6	126.6
107.5°	156.7	156.8	156.5	155.9	155.4	154.8	154.2
110°	177.3	177.3	177.2	176.8	176.4	176.0	175.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.9	197.6	197.3	197.0	196.7	196.4	196.2
115°	230.0	229.9	229.6	229.2	228.9	228.5	228.1
117.5°	260.7	260.4	260.1	259.7	259.3	258.9	258.5
120°	281.7	281.7	281.5	281.1	280.8	280.4	280.0
122.5°	302.7	302.4	302.1	301.8	301.5	301.3	301.0
125°	334.2	333.8	333.5	333.4	333.3	333.1	333.0
127.5°	364.7	364.3	363.8	363.4	363.0	362.6	362.2
130°	385.9	385.6	385.2	384.7	384.2	383.7	383.2
132.5°	405.9	405.4	404.9	404.5	404.1	403.7	403.3
135°	436.4	436.3	436.0	435.7	435.3	434.9	434.5
137.5°	465.2	465.1	464.8	464.3	463.8	463.3	462.8
140°	484.7	484.7	484.5	483.9	483.4	482.9	482.4
142.5°	502.3	502.4	502.2	501.7	501.2	500.7	500.2
145°	529.0	529.1	528.9	528.4	527.9	527.4	526.9
147.5°	552.5	552.8	552.7	552.2	551.7	551.2	550.7
150°	567.4	567.8	567.8	567.4	567.0	566.6	566.3
152.5°	582.3	582.8	582.8	582.3	581.8	581.3	580.9
155°	601.2	601.9	602.0	601.6	601.2	600.8	600.5
157.5°	618.8	619.7	619.8	619.2	618.6	618.0	617.3
160°	629.0	629.7	629.9	629.4	628.9	628.3	627.8
162.5°	638.4	639.3	639.4	638.8	638.2	637.6	637.0
165°	650.5	651.3	651.5	650.8	650.2	649.6	648.9
167.5°	660.4	661.3	661.4	660.7	660.1	659.4	658.7
170°	665.9	666.7	666.8	666.0	665.3	664.5	663.8
172.5°	670.0	670.8	670.9	670.2	669.4	668.6	667.9
175°	674.4	675.3	675.4	674.6	673.8	673.1	672.3
177.5°	676.2	676.8	676.8	676.2	675.6	675.0	674.4
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7

(END OF REPORT)