

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: P332544-940

Luminaire Tested: **SA4XXDIP-C575D590U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332544-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C575D590U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

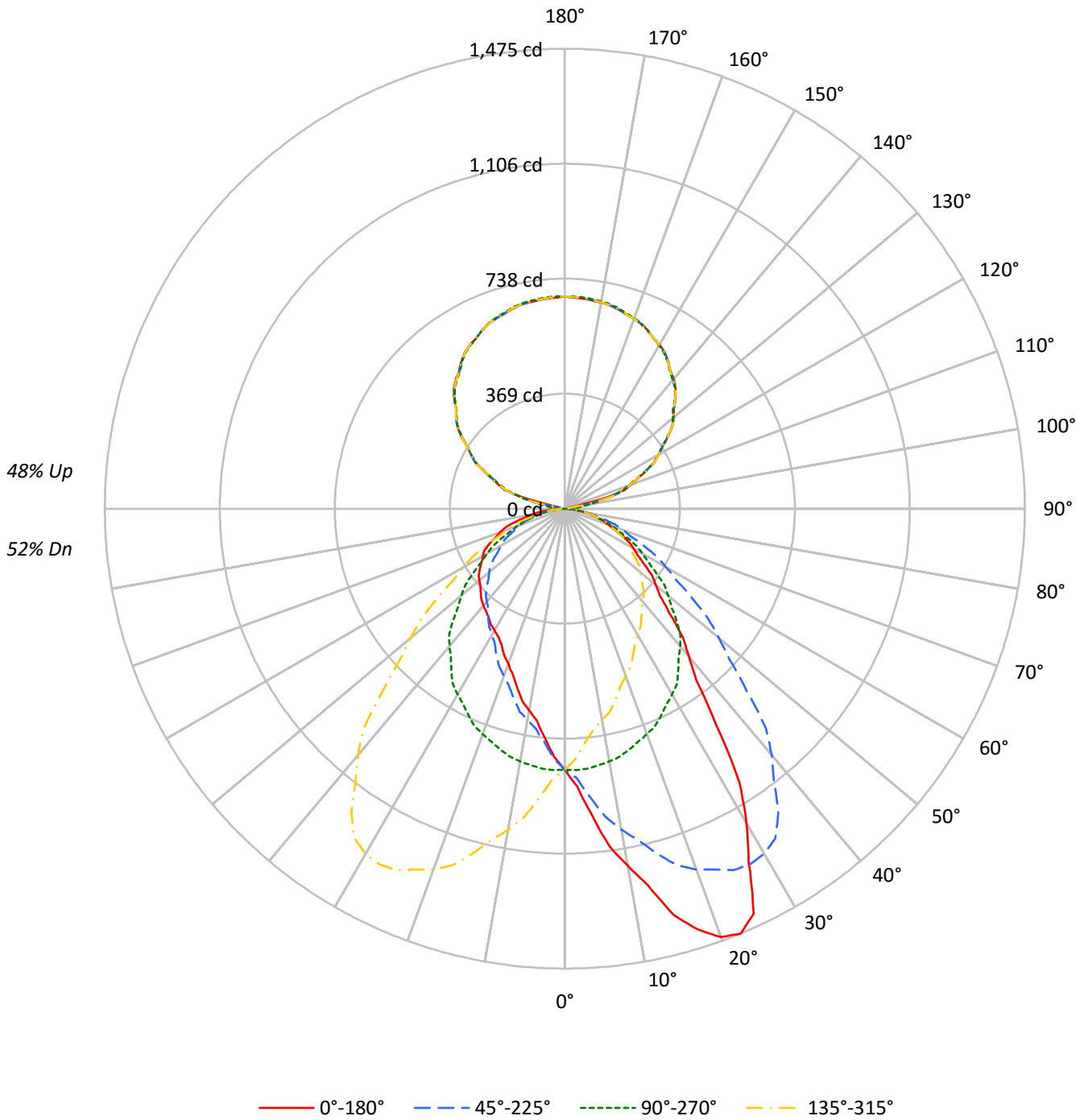
Lumens per Lamp: N/A  
Luminaire Lumens: 4416.4 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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



48% Up

52% Dn



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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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52				
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38				
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32				
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28				
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	27	24				
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21				
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19				
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17				
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	23	20	18	15				
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16	14				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6761	6761	6761	6761
5°	7963	6779	5983	6779
10°	9534	6749	5387	6749
15°	11280	6680	4947	6680
20°	12560	6611	4554	6611
25°	12764	6509	4284	6509
30°	10860	6411	4198	6411
35°	8349	6250	4199	6250
40°	6509	6062	4278	6062
45°	5426	5779	4349	5779
50°	4775	5434	4496	5434
55°	4376	5020	4677	5020
60°	4101	4648	4897	4648
65°	3817	4235	5075	4235
70°	3489	3824	5193	3824
75°	3119	3366	5128	3366
80°	2613	2757	4965	2757
85°	1927	1991	4761	1991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	1.8
10°-20°	251.5	5.7
20°-30°	398.8	9.0
30°-40°	443.8	10.0
40°-50°	404.0	9.1
50°-60°	330.1	7.5
60°-70°	235.7	5.3
70°-80°	129.8	2.9
80°-90°	37.4	0.8
90°-100°	23.3	0.5
100°-110°	148.3	3.4
110°-120°	283.7	6.4
120°-130°	360.1	8.2
130°-140°	385.3	8.7
140°-150°	360.3	8.2
150°-160°	290.6	6.6
160°-170°	187.4	4.2
170°-180°	64.6	1.5
0°-30°	731.9	16.6
0°-40°	1175.7	26.6
0°-60°	1909.9	43.2
0°-90°	2312.7	52.4
90°-120°	455.3	10.3
90°-150°	1561.1	35.3
90°-180°	2104.0	47.6
0°-180°	4416.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	838	838	838	838	838	
5°	983	836	738	836	983	100
15°	1350	799	592	799	1350	381
25°	1433	731	481	731	1433	632
35°	847	634	426	634	847	538
45°	475	506	381	506	475	374
55°	311	357	332	357	311	281
65°	200	222	266	222	200	198
75°	100	108	164	108	100	106
85°	21	22	51	22	21	26
90°	15	2	15	2	15	7
95°	15	28	15	28	15	12
105°	145	153	145	153	145	126
115°	288	286	288	286	288	285
125°	405	402	405	402	405	361
135°	502	498	502	498	502	386
145°	578	575	578	575	578	361
155°	630	630	630	630	630	290
165°	662	665	662	665	662	187
175°	676	680	676	680	676	64
180°	680	680	680	680	680	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	891.4	891.1	888.3	887.8	885.8	883.3	882.8	878.3	869.4	865.3	864.2
5°	982.6	989.5	980.4	978.7	977.7	966.3	960.4	953.4	937.5	928.1	920.8
7.5°	1091.4	1092.2	1088.2	1085.0	1076.2	1066.2	1051.2	1035.3	1016.3	996.5	981.6
10°	1163.0	1165.7	1161.3	1160.6	1142.8	1131.8	1109.6	1090.8	1069.3	1045.4	1023.5
12.5°	1238.5	1234.6	1232.3	1217.5	1214.2	1193.9	1168.1	1148.8	1115.6	1088.1	1059.0
15°	1349.6	1342.0	1337.1	1316.7	1306.6	1278.5	1251.1	1229.9	1186.6	1145.3	1114.0
17.5°	1414.9	1422.5	1411.2	1402.8	1376.8	1357.1	1329.1	1284.7	1250.7	1199.4	1160.0
20°	1462.0	1462.8	1456.5	1447.8	1427.4	1402.4	1371.8	1323.3	1282.6	1231.6	1177.5
22.5°	1474.8	1475.0	1472.3	1464.2	1448.7	1428.4	1397.7	1357.1	1308.0	1252.5	1198.4
25°	1432.9	1431.6	1434.7	1443.7	1437.8	1431.6	1413.8	1383.7	1337.8	1279.2	1220.9
27.5°	1277.2	1286.7	1304.4	1326.6	1348.0	1364.2	1368.9	1362.7	1334.3	1286.0	1225.0
30°	1165.0	1176.9	1190.0	1212.3	1255.3	1279.9	1307.0	1327.4	1316.0	1277.5	1220.6
32.5°	1041.8	1044.7	1064.3	1089.6	1129.0	1176.3	1219.2	1260.8	1274.6	1254.5	1206.9
35°	847.2	852.1	873.3	898.2	946.5	1004.4	1069.0	1126.5	1174.1	1193.2	1168.9
37.5°	691.4	705.3	720.2	747.1	789.6	841.8	908.8	983.3	1054.2	1101.6	1109.6
40°	617.6	626.2	637.0	657.5	693.6	744.9	802.5	887.9	963.1	1031.2	1053.4
42.5°	559.3	564.4	571.0	589.4	617.0	668.0	720.6	795.7	871.3	952.6	989.8
45°	475.3	480.5	491.6	502.4	523.2	558.6	607.5	669.2	745.2	823.7	892.3
47.5°	414.6	418.0	424.6	436.1	453.8	477.2	516.9	568.5	638.9	715.1	788.3
50°	380.2	383.0	388.3	398.7	412.1	433.0	465.6	513.8	569.0	645.7	717.5
52.5°	353.0	354.2	358.0	365.1	375.9	393.3	420.1	459.9	511.3	579.6	651.1
55°	310.9	312.3	315.8	320.9	330.3	341.4	361.9	391.7	436.5	495.8	557.9
57.5°	276.2	277.1	280.1	282.0	289.8	298.8	314.5	335.8	369.8	420.1	475.5
60°	254.0	253.2	256.7	258.5	263.7	271.3	283.5	303.9	333.4	374.0	425.0
62.5°	232.3	231.3	234.3	236.6	239.5	246.0	256.0	272.0	296.0	332.7	376.7
65°	199.8	198.5	200.2	203.0	205.7	209.2	216.5	230.7	249.8	276.2	309.8
67.5°	167.2	168.7	169.0	170.3	171.9	176.6	181.6	191.7	205.2	226.3	254.8
70°	147.8	148.1	149.5	149.5	150.6	154.7	158.9	164.8	178.0	197.4	220.7
72.5°	128.4	129.8	129.3	130.4	131.2	133.9	137.0	142.6	153.8	168.3	187.9
75°	100.0	100.9	100.9	101.3	102.4	103.3	105.8	109.9	118.0	128.7	142.2
77.5°	72.9	73.0	73.5	74.7	74.7	76.4	78.2	81.5	85.5	92.8	101.1
80°	56.2	56.9	56.5	57.2	57.2	58.7	59.3	63.5	65.2	70.1	76.7
82.5°	41.2	41.9	41.8	42.8	43.3	43.6	44.6	46.3	48.0	52.3	55.0
85°	20.8	21.5	20.8	21.5	22.6	22.9	23.9	24.3	25.7	26.8	29.2
87.5°	9.2	10.0	9.9	10.2	10.6	10.8	11.0	10.5	11.5	11.7	12.6
90°	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6	11.9	11.1	10.3
92.5°	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1	11.5	10.8	9.9
95°	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6	11.9	11.1	11.1
97.5°	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6	13.5	13.5	26.0
100°	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5	20.4	22.4	38.0
102.5°	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3	87.1	107.8	109.9
105°	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8	159.7	158.7	158.1
107.5°	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9	198.4	197.9	197.1
110°	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8	224.5	224.4	223.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9	249.9	249.9	249.7
115°	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3	287.1	286.9	287.0
117.5°	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0	325.1	325.1	324.9
120°	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4	348.1	347.9	348.0
122.5°	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4	371.2	371.1	371.0
125°	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5	403.2	402.9	403.1
127.5°	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5	435.5	435.6	435.1
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0	454.9	454.8	454.4
132.5°	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1	473.9	473.9	473.4
135°	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4	500.2	500.0	499.5
137.5°	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8	525.5	525.2	524.8
140°	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4	541.0	540.7	540.5
142.5°	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8	555.6	555.4	555.2
145°	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5	576.4	576.3	576.3
147.5°	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7	594.6	594.5	594.6
150°	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3	606.3	606.3	606.5
152.5°	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4	616.3	616.1	616.3
155°	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1	629.6	629.2	629.5
157.5°	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9	641.3	640.7	641.1
160°	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3	648.7	648.0	648.1
162.5°	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5	654.8	654.2	654.2
165°	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1	663.2	662.3	662.3
167.5°	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4	669.4	668.3	668.4
170°	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2	673.3	672.4	672.3
172.5°	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7	675.8	674.8	674.8
175°	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6	678.5	677.5	677.4
177.5°	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7	680.0	679.2	679.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	864.4	860.6	857.8	855.6	849.4	845.9	843.1	839.2	834.7	830.0	824.2
5°	913.6	901.7	893.0	879.9	867.4	856.9	846.2	836.5	824.7	811.9	802.5
7.5°	965.1	947.5	925.1	905.5	883.6	864.5	847.5	830.0	811.8	794.2	778.0
10°	997.8	975.3	950.3	920.8	893.0	868.4	845.5	823.3	801.8	780.2	761.9
12.5°	1033.0	1005.0	968.0	933.5	902.5	869.5	841.9	814.7	788.7	766.2	744.7
15°	1080.4	1039.8	997.1	951.0	910.1	871.6	833.7	799.3	770.3	740.4	719.6
17.5°	1109.5	1059.3	1010.5	962.2	912.7	864.1	823.3	783.7	747.2	717.6	691.3
20°	1128.6	1078.7	1018.0	969.7	910.7	860.8	813.6	769.5	731.4	699.8	672.7
22.5°	1145.3	1087.5	1026.8	963.3	904.6	851.6	800.0	755.6	716.7	683.4	657.5
25°	1154.3	1088.1	1022.1	958.9	892.3	829.6	782.7	730.7	689.0	654.0	626.2
27.5°	1155.3	1084.4	1009.9	939.7	870.9	812.4	753.3	706.8	663.6	626.5	599.9
30°	1152.2	1078.3	998.2	922.2	853.2	789.6	738.3	687.7	643.5	606.8	579.1
32.5°	1142.5	1065.5	983.2	902.8	831.3	769.1	716.1	668.0	625.0	588.8	559.6
35°	1114.4	1038.4	950.7	867.0	793.8	731.0	683.1	634.2	591.2	556.9	528.8
37.5°	1070.5	1001.7	912.6	826.0	754.1	691.1	643.5	599.4	560.6	525.7	496.9
40°	1032.2	971.8	882.3	798.0	720.2	660.2	615.8	575.2	536.7	503.7	476.4
42.5°	988.0	935.4	852.8	763.6	688.6	628.3	585.1	548.6	512.3	481.9	454.4
45°	909.4	874.7	796.9	714.3	636.3	579.4	538.1	506.2	475.6	445.9	422.9
47.5°	818.9	801.6	736.2	657.8	583.7	527.6	491.9	462.4	435.6	410.3	390.1
50°	758.0	749.8	693.2	617.6	546.8	494.1	458.0	432.7	409.7	387.5	368.5
52.5°	698.1	697.9	646.8	577.6	512.1	461.3	425.5	401.8	382.0	363.9	346.8
55°	606.5	616.2	576.3	514.5	455.9	410.1	377.8	356.7	342.8	327.9	315.0
57.5°	522.3	538.4	505.5	451.1	402.2	360.0	331.9	316.0	301.2	292.2	282.9
60°	467.3	482.6	456.9	411.2	365.0	328.9	302.2	287.9	275.1	268.9	262.3
62.5°	418.5	432.1	413.0	370.6	330.6	295.9	273.3	259.7	251.0	244.2	239.8
65°	348.7	360.2	343.8	313.0	278.6	250.8	232.5	221.7	213.4	210.6	205.7
67.5°	281.9	292.3	283.5	257.3	229.7	208.7	194.3	184.0	179.1	176.6	173.2
70°	242.2	252.6	243.2	220.3	199.1	181.5	167.9	162.0	156.9	155.8	151.0
72.5°	208.6	215.7	206.3	188.4	170.3	155.3	144.9	138.8	136.0	134.1	131.5
75°	156.5	162.7	156.5	142.6	129.7	119.3	110.3	107.9	104.8	103.7	102.0
77.5°	110.8	116.2	111.4	102.7	93.1	85.1	80.3	77.1	76.4	74.6	75.4
80°	84.6	88.1	83.6	77.8	70.1	64.6	61.1	59.3	57.2	56.5	58.0
82.5°	60.8	62.3	60.0	56.1	50.4	46.7	44.4	42.4	42.0	42.1	42.1
85°	31.6	31.2	30.9	27.4	25.7	23.3	21.8	21.5	21.1	21.8	22.6
87.5°	12.4	12.5	12.0	10.7	9.6	8.6	8.0	7.5	8.0	8.6	9.1
90°	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5	2.8	4.0	5.3
92.5°	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4	6.5	6.5	6.6
95°	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0	24.2	20.3	16.4
97.5°	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4	61.8	64.2	66.6
100°	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4	85.4	87.5	89.5
102.5°	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3	111.7	113.2	114.8
105°	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1	153.8	154.4	155.2
107.5°	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9	193.2	193.6	193.9
110°	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7	220.1	220.4	220.8





TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8	246.4	247.0	247.6
115°	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9	286.2	286.5	286.9
117.5°	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0	322.4	322.9	323.3
120°	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4	346.9	347.3	347.8
122.5°	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2	369.4	369.7	370.0
125°	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8	402.3	402.8	403.2
127.5°	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7	432.8	433.0	433.1
130°	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7	452.8	452.9	453.1
132.5°	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0	471.2	471.4	471.6
135°	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5	498.4	498.3	498.1
137.5°	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8	522.8	522.9	522.9
140°	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7	538.9	539.1	539.3
142.5°	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9	553.3	553.8	554.1
145°	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8	575.2	575.4	575.8
147.5°	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2	592.8	593.4	594.1
150°	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8	605.2	605.7	606.2
152.5°	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4	615.7	616.1	616.4
155°	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3	630.4	630.4	630.5
157.5°	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7	642.7	642.6	642.6
160°	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1	649.7	649.3	649.1
162.5°	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6	656.1	655.7	655.3
165°	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8	664.2	663.7	663.1
167.5°	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3	670.7	670.1	669.6
170°	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0	674.3	673.6	673.0
172.5°	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4	676.7	676.1	675.4
175°	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1	679.4	678.7	678.1
177.5°	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3	680.6	680.0	679.4
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	821.4	818.9	815.3	810.3	806.2	801.7	800.6	799.0	802.3	799.5	798.7
5°	794.5	787.2	777.8	767.1	760.9	751.8	750.1	746.6	743.2	742.8	739.3
7.5°	766.0	755.3	743.1	732.1	721.9	712.1	705.6	704.3	699.1	696.2	692.7
10°	747.7	734.5	720.2	709.9	698.0	687.7	680.4	676.2	672.7	668.9	665.5
12.5°	726.0	712.0	700.3	689.0	675.0	667.1	655.1	647.9	647.2	647.3	638.3
15°	700.8	687.0	668.9	653.0	645.3	630.1	623.5	615.1	609.9	604.8	600.6
17.5°	672.1	654.8	640.7	622.3	607.8	595.7	586.9	581.9	574.2	566.8	561.4
20°	654.0	635.6	620.7	601.3	585.3	570.4	563.1	556.2	550.3	544.0	538.1
22.5°	635.7	616.4	598.2	579.3	564.5	548.8	541.7	532.3	526.6	523.2	517.3
25°	606.8	586.0	565.2	547.2	531.9	518.0	508.6	501.3	495.1	492.3	488.5
27.5°	575.4	554.7	534.7	514.2	496.9	486.8	479.3	473.8	470.2	466.5	464.8
30°	555.4	534.0	512.5	493.4	477.4	467.3	460.4	456.6	453.8	452.1	450.3
32.5°	535.2	514.0	491.3	473.9	459.7	450.7	445.4	441.6	440.2	439.6	439.0
35°	502.7	481.3	460.4	444.8	431.2	427.8	423.3	421.2	420.5	422.9	424.0
37.5°	471.3	451.3	432.1	417.1	408.1	403.1	401.5	401.6	404.1	406.3	408.8
40°	451.0	431.6	413.6	400.4	392.1	389.0	388.3	389.9	392.7	395.2	398.0
42.5°	431.3	412.1	395.8	383.4	377.6	374.8	375.2	376.9	380.8	383.8	388.0
45°	400.7	384.8	368.8	358.7	353.9	354.5	354.5	357.7	361.5	366.0	370.5
47.5°	371.9	355.8	342.7	334.2	331.7	331.1	333.1	337.2	342.7	348.2	354.5
50°	352.5	337.2	325.7	318.2	315.4	316.4	319.2	323.0	329.6	336.5	343.1
52.5°	332.8	318.9	308.3	301.2	299.3	301.1	303.9	310.0	315.8	323.2	331.2
55°	302.2	290.4	282.0	276.9	276.2	277.2	280.4	287.0	295.2	304.6	312.3
57.5°	271.7	261.9	254.2	250.7	251.0	252.0	257.1	264.9	273.8	283.8	293.6
60°	251.2	242.2	235.9	233.2	233.5	235.6	241.8	249.1	260.2	269.9	280.4
62.5°	231.8	223.8	217.8	215.3	214.9	219.5	225.4	233.0	244.2	254.9	266.2
65°	200.5	194.3	189.4	188.1	189.0	192.5	200.2	210.3	219.6	231.0	242.9
67.5°	170.0	164.9	161.6	162.2	163.5	168.5	175.0	183.6	194.2	206.1	217.8
70°	150.6	145.7	142.9	143.3	145.3	151.6	157.2	165.9	177.3	189.4	199.1
72.5°	130.6	127.4	124.9	126.4	128.4	132.8	139.6	148.4	158.5	169.7	180.0
75°	100.2	100.2	98.9	100.0	103.1	107.2	112.4	121.5	131.5	140.5	148.8
77.5°	74.4	73.7	74.5	75.8	77.6	82.5	88.5	95.0	102.5	111.6	118.4
80°	56.9	57.2	58.9	61.1	61.8	65.5	71.8	77.8	83.6	91.2	97.8
82.5°	42.7	43.1	44.0	46.6	47.3	51.5	55.5	61.3	66.7	71.8	77.3
85°	23.3	23.3	25.0	26.0	27.7	30.5	33.0	36.5	41.3	44.8	49.9
87.5°	10.2	10.4	11.7	12.4	13.5	15.0	15.7	18.9	20.2	21.7	24.3
90°	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6	13.2	13.9	14.4
92.5°	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1	12.8	13.5	13.8
95°	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6	13.2	13.9	14.3
97.5°	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6	13.6	13.7	13.8
100°	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5	16.6	14.7	13.8
102.5°	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3	45.7	24.9	14.5
105°	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8	161.8	162.7	161.2
107.5°	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9	199.4	199.8	200.3
110°	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8	225.0	225.2	225.5



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9	249.9	249.8	249.9
115°	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3	287.6	287.8	287.9
117.5°	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0	325.0	324.9	324.9
120°	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4	348.6	348.8	348.8
122.5°	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4	371.5	371.7	371.6
125°	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5	403.9	404.2	404.5
127.5°	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5	435.4	435.3	435.2
130°	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0	455.0	455.2	455.2
132.5°	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1	474.2	474.3	474.3
135°	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4	500.7	500.9	501.1
137.5°	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8	526.0	526.2	526.3
140°	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4	541.7	542.1	542.2
142.5°	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8	556.1	556.3	556.5
145°	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5	576.7	576.8	576.9
147.5°	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7	594.8	594.9	594.9
150°	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3	606.3	606.3	606.4
152.5°	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4	616.6	616.8	616.9
155°	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1	630.5	631.0	631.1
157.5°	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9	642.5	643.0	643.0
160°	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3	650.1	650.8	650.8
162.5°	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5	656.1	656.8	656.8
165°	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1	664.9	665.9	665.8
167.5°	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4	671.4	672.3	672.3
170°	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2	675.1	676.1	675.9
172.5°	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7	677.6	678.5	678.3
175°	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6	680.6	681.6	681.4
177.5°	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7	681.4	682.2	682.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	798.1	797.5	795.6	795.3	795.6	797.5	798.1	798.7	799.5	802.3	799.0
5°	737.3	735.6	734.5	738.3	734.5	735.6	737.3	739.3	742.8	743.2	746.6
7.5°	691.4	690.0	687.0	686.0	687.0	690.0	691.4	692.7	696.2	699.1	704.3
10°	662.0	660.6	657.8	657.1	657.8	660.6	662.0	665.5	668.9	672.7	676.2
12.5°	633.6	630.9	630.4	631.1	630.4	630.9	633.6	638.3	647.3	647.2	647.9
15°	596.0	594.7	590.8	591.9	590.8	594.7	596.0	600.6	604.8	609.9	615.1
17.5°	559.0	557.3	552.7	556.8	552.7	557.3	559.0	561.4	566.8	574.2	581.9
20°	535.7	532.9	530.5	530.1	530.5	532.9	535.7	538.1	544.0	550.3	556.2
22.5°	513.4	511.0	510.8	508.5	510.8	511.0	513.4	517.3	523.2	526.6	532.3
25°	485.7	483.3	482.6	480.9	482.6	483.3	485.7	488.5	492.3	495.1	501.3
27.5°	464.4	463.2	462.0	462.5	462.0	463.2	464.4	464.8	466.5	470.2	473.8
30°	451.4	451.0	450.3	450.3	450.3	451.0	451.4	450.3	452.1	453.8	456.6
32.5°	440.6	440.5	440.9	440.9	440.9	440.5	440.6	439.0	439.6	440.2	441.6
35°	425.3	426.4	427.1	426.1	427.1	426.4	425.3	424.0	422.9	420.5	421.2
37.5°	411.6	412.7	413.7	414.8	413.7	412.7	411.6	408.8	406.3	404.1	401.6
40°	401.1	403.5	404.2	405.9	404.2	403.5	401.1	398.0	395.2	392.7	389.9
42.5°	391.1	393.8	395.6	395.9	395.6	393.8	391.1	388.0	383.8	380.8	376.9
45°	375.8	378.5	380.9	380.9	380.9	378.5	375.8	370.5	366.0	361.5	357.7
47.5°	359.9	363.9	366.3	366.9	366.3	363.9	359.9	354.5	348.2	342.7	337.2
50°	349.0	353.9	356.3	358.0	356.3	353.9	349.0	343.1	336.5	329.6	323.0
52.5°	338.5	343.3	346.6	347.5	346.6	343.3	338.5	331.2	323.2	315.8	310.0
55°	320.2	327.2	331.0	332.3	331.0	327.2	320.2	312.3	304.6	295.2	287.0
57.5°	303.0	309.4	313.9	314.9	313.9	309.4	303.0	293.6	283.8	273.8	264.9
60°	289.7	296.7	302.2	303.3	302.2	296.7	289.7	280.4	269.9	260.2	249.1
62.5°	276.1	283.3	288.3	291.1	288.3	283.3	276.1	266.2	254.9	244.2	233.0
65°	252.6	259.8	264.7	265.7	264.7	259.8	252.6	242.9	231.0	219.6	210.3
67.5°	226.9	234.2	237.4	239.4	237.4	234.2	226.9	217.8	206.1	194.2	183.6
70°	208.8	214.7	218.2	220.0	218.2	214.7	208.8	199.1	189.4	177.3	165.9
72.5°	188.3	194.5	198.5	198.9	198.5	194.5	188.3	180.0	169.7	158.5	148.4
75°	156.9	162.4	164.4	164.4	164.4	162.4	156.9	148.8	140.5	131.5	121.5
77.5°	124.1	127.0	129.7	130.2	129.7	127.0	124.1	118.4	111.6	102.5	95.0
80°	103.1	104.8	106.8	106.8	106.8	104.8	103.1	97.8	91.2	83.6	77.8
82.5°	81.4	82.8	84.9	84.6	84.9	82.8	81.4	77.3	71.8	66.7	61.3
85°	49.2	52.4	52.1	51.4	52.1	52.4	49.2	49.9	44.8	41.3	36.5
87.5°	25.1	25.4	26.3	26.9	26.3	25.4	25.1	24.3	21.7	20.2	18.9
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6
92.5°	13.9	13.9	14.0	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1
95°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6
97.5°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6
100°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5
102.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3
105°	157.2	153.1	149.0	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8
107.5°	200.7	201.2	201.6	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9
110°	225.9	226.1	226.5	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.8	251.3	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9
115°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3
117.5°	324.9	324.9	324.8	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0
120°	348.6	348.4	348.1	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4
122.5°	371.4	371.1	371.0	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4
125°	404.6	404.7	404.7	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5
127.5°	435.2	435.1	435.0	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0
132.5°	474.2	474.1	474.0	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1
135°	501.3	501.6	501.9	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4
137.5°	526.3	526.2	526.1	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8
140°	542.4	542.5	542.6	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4
142.5°	556.5	556.5	556.5	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8
145°	577.1	577.4	577.7	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5
147.5°	595.1	595.2	595.3	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7
150°	606.5	606.6	606.7	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3
152.5°	616.8	616.7	616.6	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4
155°	630.7	630.4	630.1	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1
157.5°	642.5	641.9	641.3	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9
160°	650.1	649.3	648.7	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3
162.5°	656.0	655.2	654.5	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5
165°	664.8	663.8	662.8	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1
167.5°	671.2	670.0	668.9	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4
170°	674.8	673.7	672.5	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2
172.5°	677.2	675.9	674.7	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7
175°	680.1	678.7	677.3	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6
177.5°	680.9	679.8	678.7	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	800.6	801.7	806.2	810.3	815.3	818.9	821.4	824.2	830.0	834.7	839.2
5°	750.1	751.8	760.9	767.1	777.8	787.2	794.5	802.5	811.9	824.7	836.5
7.5°	705.6	712.1	721.9	732.1	743.1	755.3	766.0	778.0	794.2	811.8	830.0
10°	680.4	687.7	698.0	709.9	720.2	734.5	747.7	761.9	780.2	801.8	823.3
12.5°	655.1	667.1	675.0	689.0	700.3	712.0	726.0	744.7	766.2	788.7	814.7
15°	623.5	630.1	645.3	653.0	668.9	687.0	700.8	719.6	740.4	770.3	799.3
17.5°	586.9	595.7	607.8	622.3	640.7	654.8	672.1	691.3	717.6	747.2	783.7
20°	563.1	570.4	585.3	601.3	620.7	635.6	654.0	672.7	699.8	731.4	769.5
22.5°	541.7	548.8	564.5	579.3	598.2	616.4	635.7	657.5	683.4	716.7	755.6
25°	508.6	518.0	531.9	547.2	565.2	586.0	606.8	626.2	654.0	689.0	730.7
27.5°	479.3	486.8	496.9	514.2	534.7	554.7	575.4	599.9	626.5	663.6	706.8
30°	460.4	467.3	477.4	493.4	512.5	534.0	555.4	579.1	606.8	643.5	687.7
32.5°	445.4	450.7	459.7	473.9	491.3	514.0	535.2	559.6	588.8	625.0	668.0
35°	423.3	427.8	431.2	444.8	460.4	481.3	502.7	528.8	556.9	591.2	634.2
37.5°	401.5	403.1	408.1	417.1	432.1	451.3	471.3	496.9	525.7	560.6	599.4
40°	388.3	389.0	392.1	400.4	413.6	431.6	451.0	476.4	503.7	536.7	575.2
42.5°	375.2	374.8	377.6	383.4	395.8	412.1	431.3	454.4	481.9	512.3	548.6
45°	354.5	354.5	353.9	358.7	368.8	384.8	400.7	422.9	445.9	475.6	506.2
47.5°	333.1	331.1	331.7	334.2	342.7	355.8	371.9	390.1	410.3	435.6	462.4
50°	319.2	316.4	315.4	318.2	325.7	337.2	352.5	368.5	387.5	409.7	432.7
52.5°	303.9	301.1	299.3	301.2	308.3	318.9	332.8	346.8	363.9	382.0	401.8
55°	280.4	277.2	276.2	276.9	282.0	290.4	302.2	315.0	327.9	342.8	356.7
57.5°	257.1	252.0	251.0	250.7	254.2	261.9	271.7	282.9	292.2	301.2	316.0
60°	241.8	235.6	233.5	233.2	235.9	242.2	251.2	262.3	268.9	275.1	287.9
62.5°	225.4	219.5	214.9	215.3	217.8	223.8	231.8	239.8	244.2	251.0	259.7
65°	200.2	192.5	189.0	188.1	189.4	194.3	200.5	205.7	210.6	213.4	221.7
67.5°	175.0	168.5	163.5	162.2	161.6	164.9	170.0	173.2	176.6	179.1	184.0
70°	157.2	151.6	145.3	143.3	142.9	145.7	150.6	151.0	155.8	156.9	162.0
72.5°	139.6	132.8	128.4	126.4	124.9	127.4	130.6	131.5	134.1	136.0	138.8
75°	112.4	107.2	103.1	100.0	98.9	100.2	100.2	102.0	103.7	104.8	107.9
77.5°	88.5	82.5	77.6	75.8	74.5	73.7	74.4	75.4	74.6	76.4	77.1
80°	71.8	65.5	61.8	61.1	58.9	57.2	56.9	58.0	56.5	57.2	59.3
82.5°	55.5	51.5	47.3	46.6	44.0	43.1	42.7	42.1	42.1	42.0	42.4
85°	33.0	30.5	27.7	26.0	25.0	23.3	23.3	22.6	21.8	21.1	21.5
87.5°	15.7	15.0	13.5	12.4	11.7	10.4	10.2	9.1	8.6	8.0	7.5
90°	11.9	11.1	10.3	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5
92.5°	11.5	10.8	9.9	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4
95°	11.9	11.1	11.1	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0
97.5°	13.5	13.5	26.0	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4
100°	20.4	22.4	38.0	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4
102.5°	87.1	107.8	109.9	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3
105°	159.7	158.7	158.1	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1
107.5°	198.4	197.9	197.1	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9
110°	224.5	224.4	223.6	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	249.9	249.9	249.7	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8
115°	287.1	286.9	287.0	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9
117.5°	325.1	325.1	324.9	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0
120°	348.1	347.9	348.0	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4
122.5°	371.2	371.1	371.0	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2
125°	403.2	402.9	403.1	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8
127.5°	435.5	435.6	435.1	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7
130°	454.9	454.8	454.4	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7
132.5°	473.9	473.9	473.4	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0
135°	500.2	500.0	499.5	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5
137.5°	525.5	525.2	524.8	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8
140°	541.0	540.7	540.5	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7
142.5°	555.6	555.4	555.2	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9
145°	576.4	576.3	576.3	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8
147.5°	594.6	594.5	594.6	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2
150°	606.3	606.3	606.5	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8
152.5°	616.3	616.1	616.3	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4
155°	629.6	629.2	629.5	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3
157.5°	641.3	640.7	641.1	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7
160°	648.7	648.0	648.1	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1
162.5°	654.8	654.2	654.2	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6
165°	663.2	662.3	662.3	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8
167.5°	669.4	668.3	668.4	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3
170°	673.3	672.4	672.3	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0
172.5°	675.8	674.8	674.8	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4
175°	678.5	677.5	677.4	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1
177.5°	680.0	679.2	679.0	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	843.1	845.9	849.4	855.6	857.8	860.6	864.4	864.2	865.3	869.4	878.3
5°	846.2	856.9	867.4	879.9	893.0	901.7	913.6	920.8	928.1	937.5	953.4
7.5°	847.5	864.5	883.6	905.5	925.1	947.5	965.1	981.6	996.5	1016.3	1035.3
10°	845.5	868.4	893.0	920.8	950.3	975.3	997.8	1023.5	1045.4	1069.3	1090.8
12.5°	841.9	869.5	902.5	933.5	968.0	1005.0	1033.0	1059.0	1088.1	1115.6	1148.8
15°	833.7	871.6	910.1	951.0	997.1	1039.8	1080.4	1114.0	1145.3	1186.6	1229.9
17.5°	823.3	864.1	912.7	962.2	1010.5	1059.3	1109.5	1160.0	1199.4	1250.7	1284.7
20°	813.6	860.8	910.7	969.7	1018.0	1078.7	1128.6	1177.5	1231.6	1282.6	1323.3
22.5°	800.0	851.6	904.6	963.3	1026.8	1087.5	1145.3	1198.4	1252.5	1308.0	1357.1
25°	782.7	829.6	892.3	958.9	1022.1	1088.1	1154.3	1220.9	1279.2	1337.8	1383.7
27.5°	753.3	812.4	870.9	939.7	1009.9	1084.4	1155.3	1225.0	1286.0	1334.3	1362.7
30°	738.3	789.6	853.2	922.2	998.2	1078.3	1152.2	1220.6	1277.5	1316.0	1327.4
32.5°	716.1	769.1	831.3	902.8	983.2	1065.5	1142.5	1206.9	1254.5	1274.6	1260.8
35°	683.1	731.0	793.8	867.0	950.7	1038.4	1114.4	1168.9	1193.2	1174.1	1126.5
37.5°	643.5	691.1	754.1	826.0	912.6	1001.7	1070.5	1109.6	1101.6	1054.2	983.3
40°	615.8	660.2	720.2	798.0	882.3	971.8	1032.2	1053.4	1031.2	963.1	887.9
42.5°	585.1	628.3	688.6	763.6	852.8	935.4	988.0	989.8	952.6	871.3	795.7
45°	538.1	579.4	636.3	714.3	796.9	874.7	909.4	892.3	823.7	745.2	669.2
47.5°	491.9	527.6	583.7	657.8	736.2	801.6	818.9	788.3	715.1	638.9	568.5
50°	458.0	494.1	546.8	617.6	693.2	749.8	758.0	717.5	645.7	569.0	513.8
52.5°	425.5	461.3	512.1	577.6	646.8	697.9	698.1	651.1	579.6	511.3	459.9
55°	377.8	410.1	455.9	514.5	576.3	616.2	606.5	557.9	495.8	436.5	391.7
57.5°	331.9	360.0	402.2	451.1	505.5	538.4	522.3	475.5	420.1	369.8	335.8
60°	302.2	328.9	365.0	411.2	456.9	482.6	467.3	425.0	374.0	333.4	303.9
62.5°	273.3	295.9	330.6	370.6	413.0	432.1	418.5	376.7	332.7	296.0	272.0
65°	232.5	250.8	278.6	313.0	343.8	360.2	348.7	309.8	276.2	249.8	230.7
67.5°	194.3	208.7	229.7	257.3	283.5	292.3	281.9	254.8	226.3	205.2	191.7
70°	167.9	181.5	199.1	220.3	243.2	252.6	242.2	220.7	197.4	178.0	164.8
72.5°	144.9	155.3	170.3	188.4	206.3	215.7	208.6	187.9	168.3	153.8	142.6
75°	110.3	119.3	129.7	142.6	156.5	162.7	156.5	142.2	128.7	118.0	109.9
77.5°	80.3	85.1	93.1	102.7	111.4	116.2	110.8	101.1	92.8	85.5	81.5
80°	61.1	64.6	70.1	77.8	83.6	88.1	84.6	76.7	70.1	65.2	63.5
82.5°	44.4	46.7	50.4	56.1	60.0	62.3	60.8	55.0	52.3	48.0	46.3
85°	21.8	23.3	25.7	27.4	30.9	31.2	31.6	29.2	26.8	25.7	24.3
87.5°	8.0	8.6	9.6	10.7	12.0	12.5	12.4	12.6	11.7	11.5	10.5
90°	2.8	4.0	5.3	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6
92.5°	6.5	6.5	6.6	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1
95°	24.2	20.3	16.4	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6
97.5°	61.8	64.2	66.6	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6
100°	85.4	87.5	89.5	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5
102.5°	111.7	113.2	114.8	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3
105°	153.8	154.4	155.2	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8
107.5°	193.2	193.6	193.9	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9
110°	220.1	220.4	220.8	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8





TEST NUMBER: P332544-940

CATALOG NUMBER: SA4XXDIP-C575D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.4	247.0	247.6	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9
115°	286.2	286.5	286.9	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3
117.5°	322.4	322.9	323.3	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0
120°	346.9	347.3	347.8	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4
122.5°	369.4	369.7	370.0	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4
125°	402.3	402.8	403.2	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5
127.5°	432.8	433.0	433.1	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5
130°	452.8	452.9	453.1	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0
132.5°	471.2	471.4	471.6	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1
135°	498.4	498.3	498.1	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4
137.5°	522.8	522.9	522.9	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8
140°	538.9	539.1	539.3	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4
142.5°	553.3	553.8	554.1	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8
145°	575.2	575.4	575.8	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5
147.5°	592.8	593.4	594.1	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7
150°	605.2	605.7	606.2	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3
152.5°	615.7	616.1	616.4	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4
155°	630.4	630.4	630.5	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1
157.5°	642.7	642.6	642.6	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9
160°	649.7	649.3	649.1	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3
162.5°	656.1	655.7	655.3	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5
165°	664.2	663.7	663.1	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1
167.5°	670.7	670.1	669.6	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4
170°	674.3	673.6	673.0	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2
172.5°	676.7	676.1	675.4	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7
175°	679.4	678.7	678.1	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6
177.5°	680.6	680.0	679.4	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	882.8	883.3	885.8	887.8	888.3	891.1	891.4
5°	960.4	966.3	977.7	978.7	980.4	989.5	982.6
7.5°	1051.2	1066.2	1076.2	1085.0	1088.2	1092.2	1091.4
10°	1109.6	1131.8	1142.8	1160.6	1161.3	1165.7	1163.0
12.5°	1168.1	1193.9	1214.2	1217.5	1232.3	1234.6	1238.5
15°	1251.1	1278.5	1306.6	1316.7	1337.1	1342.0	1349.6
17.5°	1329.1	1357.1	1376.8	1402.8	1411.2	1422.5	1414.9
20°	1371.8	1402.4	1427.4	1447.8	1456.5	1462.8	1462.0
22.5°	1397.7	1428.4	1448.7	1464.2	1472.3	1475.0	1474.8
25°	1413.8	1431.6	1437.8	1443.7	1434.7	1431.6	1432.9
27.5°	1368.9	1364.2	1348.0	1326.6	1304.4	1286.7	1277.2
30°	1307.0	1279.9	1255.3	1212.3	1190.0	1176.9	1165.0
32.5°	1219.2	1176.3	1129.0	1089.6	1064.3	1044.7	1041.8
35°	1069.0	1004.4	946.5	898.2	873.3	852.1	847.2
37.5°	908.8	841.8	789.6	747.1	720.2	705.3	691.4
40°	802.5	744.9	693.6	657.5	637.0	626.2	617.6
42.5°	720.6	668.0	617.0	589.4	571.0	564.4	559.3
45°	607.5	558.6	523.2	502.4	491.6	480.5	475.3
47.5°	516.9	477.2	453.8	436.1	424.6	418.0	414.6
50°	465.6	433.0	412.1	398.7	388.3	383.0	380.2
52.5°	420.1	393.3	375.9	365.1	358.0	354.2	353.0
55°	361.9	341.4	330.3	320.9	315.8	312.3	310.9
57.5°	314.5	298.8	289.8	282.0	280.1	277.1	276.2
60°	283.5	271.3	263.7	258.5	256.7	253.2	254.0
62.5°	256.0	246.0	239.5	236.6	234.3	231.3	232.3
65°	216.5	209.2	205.7	203.0	200.2	198.5	199.8
67.5°	181.6	176.6	171.9	170.3	169.0	168.7	167.2
70°	158.9	154.7	150.6	149.5	149.5	148.1	147.8
72.5°	137.0	133.9	131.2	130.4	129.3	129.8	128.4
75°	105.8	103.3	102.4	101.3	100.9	100.9	100.0
77.5°	78.2	76.4	74.7	74.7	73.5	73.0	72.9
80°	59.3	58.7	57.2	57.2	56.5	56.9	56.2
82.5°	44.6	43.6	43.3	42.8	41.8	41.9	41.2
85°	23.9	22.9	22.6	21.5	20.8	21.5	20.8
87.5°	11.0	10.8	10.6	10.2	9.9	10.0	9.2
90°	13.2	13.9	14.4	14.6	14.8	15.1	15.2
92.5°	12.8	13.5	13.8	13.9	13.9	14.0	14.0
95°	13.2	13.9	14.3	14.4	14.5	14.6	14.7
97.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.3
100°	16.6	14.7	13.8	13.9	14.0	14.1	14.3
102.5°	45.7	24.9	14.5	14.6	14.6	14.6	14.6
105°	161.8	162.7	161.2	157.2	153.1	149.0	145.0
107.5°	199.4	199.8	200.3	200.7	201.2	201.6	202.1
110°	225.0	225.2	225.5	225.9	226.1	226.5	226.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	249.9	249.8	249.9	250.4	250.8	251.3	251.6
115°	287.6	287.8	287.9	287.9	287.9	287.9	287.9
117.5°	325.0	324.9	324.9	324.9	324.9	324.8	324.8
120°	348.6	348.8	348.8	348.6	348.4	348.1	347.9
122.5°	371.5	371.7	371.6	371.4	371.1	371.0	370.7
125°	403.9	404.2	404.5	404.6	404.7	404.7	404.9
127.5°	435.4	435.3	435.2	435.2	435.1	435.0	434.9
130°	455.0	455.2	455.2	455.2	455.2	455.2	455.2
132.5°	474.2	474.3	474.3	474.2	474.1	474.0	473.9
135°	500.7	500.9	501.1	501.3	501.6	501.9	502.0
137.5°	526.0	526.2	526.3	526.3	526.2	526.1	526.0
140°	541.7	542.1	542.2	542.4	542.5	542.6	542.7
142.5°	556.1	556.3	556.5	556.5	556.5	556.5	556.6
145°	576.7	576.8	576.9	577.1	577.4	577.7	577.8
147.5°	594.8	594.9	594.9	595.1	595.2	595.3	595.4
150°	606.3	606.3	606.4	606.5	606.6	606.7	606.8
152.5°	616.6	616.8	616.9	616.8	616.7	616.6	616.6
155°	630.5	631.0	631.1	630.7	630.4	630.1	629.7
157.5°	642.5	643.0	643.0	642.5	641.9	641.3	640.7
160°	650.1	650.8	650.8	650.1	649.3	648.7	648.0
162.5°	656.1	656.8	656.8	656.0	655.2	654.5	653.7
165°	664.9	665.9	665.8	664.8	663.8	662.8	661.7
167.5°	671.4	672.3	672.3	671.2	670.0	668.9	667.8
170°	675.1	676.1	675.9	674.8	673.7	672.5	671.5
172.5°	677.6	678.5	678.3	677.2	675.9	674.7	673.4
175°	680.6	681.6	681.4	680.1	678.7	677.3	676.0
177.5°	681.4	682.2	682.0	680.9	679.8	678.7	677.6
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1

(END OF REPORT)